

House & Garden

CIRCULATING



DISCARDED

SPRING GARDENING GUIDE

H 1917

CONDE NAST & COMPANY inc Publishers

25 CENTS



CHINESE
WOOLFLOWER



SWEET
EVERBLOOMING WILLIAM



AMERICAN MASTODON PANSIES

CHINESE WOOLFLOWER

This was introduced from China by us three years ago and has proved a great success everywhere. There is not the slightest doubt but that it is the most magnificent garden annual. Its ease of culture and long continued season of bloom (early in July until frost), together with its massive bunches of wool-like flowers and glowing color combine to make it the showiest as well as the most odd and novel garden flower.

Plants grow two to three feet high, the blooms starting early with a central globular head which often reaches the immense size of two feet in circumference. Scores of branches are thrown out each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade in any way until hit by frost, but all continue to expand and glow with a deepening richness of color, a deep crimson-scarlet.

SEED—10c per pkt., 3 pkts. for 25c

NEW EVERBLOOMING SWEET WILLIAM

Begins blooming in fifty to sixty days from seed, and continues in profusion all summer and fall. Also the following year, being hardy.

Truly everblooming in every sense of the word. Flowers large, clusters very large, and colors exceedingly varied and beautiful, ranging from pure white to blood-red ringed, spotted, etc. Such a bewildering array of superb colors so exquisitely combined it is hard to find in any other flower. SEED—10c per pkt., 3 pkts. for 25c.

AMERICAN MASTODON PANSIES

PERFECT MARVELS IN SIZE AND BEAUTY.

These Pansies have a robust vigor unknown in other strains. Flowers larger than the Trimarceau, with the substance and rounded form of the German strains, a touch of the Masterpiece in the artistic curves of the petals, the wonderful colors of the Orchid Pansies and a delicate fragrance like the violet-scented.

The enormous size of blooms, nearly four inches across, clear tones of color and with wonderful tints and variegations and free flowering qualities, even through the hot summer weather, will be a revelation.

Mixed Colors—Such as white with dark center, dark blue and light blue, pure white, black, lavender, violet, blue, bronze (new), royal purple (new), rose, cerise-red, red with silver rim, mahogany, yellow, wine-colored, red and gold, lavender and gold, striped, margined, etc. 10c per pkt. of 100 seeds; 3 pkts. for 25c; 1/2 ounce, \$1.00.

SPECIAL OFFER FOR 20c

We will send these three great Floral Novelties and two more—five altogether—for only 20c, 3 lots (15 pkts.), for 50c. See our catalogue for colored plates, culture, etc.

ORDER AT ONCE. THESE OFFERS WILL NOT APPEAR AGAIN

ICE-PROOF MASTODON PANSY PLANTS

Special Offer for Spring Delivery.
Have a Beautiful Bed of Pansies at Small Cost

We grow young, vigorous plants of the Mastodon Pansy in open ground from September sown seed that are ready for delivery from January to May. For the Southern and Pacific States we can ship now. For colder latitudes shipments are made as early in spring as the plants can be put out. They are hardened by the ice and snows of winter, and in spring are ready to jump into vigorous growth and bloom.

Price—mixed colors, postpaid, 25 for 50c; 100 for \$1.75; 300 for \$5.00.

NEW SEEDLINGS OF JAPAN IRIS

Immense Size—Wonderful Colors—Quick Blooming.

We have developed a wonderful strain of Hybrid Seedling Iris Kaempferi that are marvels in beauty and perfection of bloom, with a wide range of exquisite colors in blue, lavender, white, rich purples, plum-red, tinted, striped and mottled in endless variety. These Iris are perfectly hardy and bloom profusely, bearing large petals, double and single flowers. Flowers seven to ten inches across on stalks four feet high, and no two alike.

Strong Roots for quick blooming. 5 for 50c; 12 for \$1.00; 100 for \$6.00.

SPECIAL COLLECTIONS OF BEST BULBS

Being the largest growers of Gladioli we can make the following attractive offers for finest Bulbs and best sorts. All Postpaid.

5 OF THE NEWER AND FINER GLADIOLI FOR 25c.

Every sort in this collection stands high among the very finest sorts of today. The 5 for 25c.

Klondyke—Light yellow, crimson center.

Snow Cloud—White suffused pink.

Baron Hulot—Fine blue.

Attraction—Rosy scarlet, white center.

Halle—Orange pink; very large.

FINEST MIXED GLADIOLI

All colors and varieties, 25c per doz., \$1.75 per 100, \$15.00 per 1,000.

GERMAN IRIS

Finest sorts mixed, 60c per doz., \$4.00 per 100.

NEW DAHLIAS

Eight splendid sorts named, for \$1.00.

NEW CANNAS

Ten extra fine sorts (mostly new), named, for 75c.

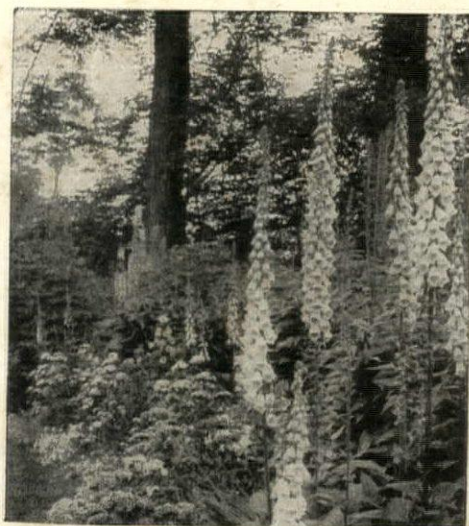
OUR CATALOGUE

of Flower and Vegetable Seeds, Summer-flowering Bulbs, Window and Bedding Plants, Hardy Perennials, Vines, rare new flowering shrubs, and the greatest new Fruits and Berries, sent free to all who apply. Scores of Sterling Novelties.

We are the largest growers of Gladioli, Cannas, Dahlias, Lillies, Iris, etc. Our gardens at Floral Park and Flowerfield comprise more than one thousand acres. We are headquarters for all Summer-flowering Bulbs, and our stocks are large and complete.

ADDRESS: JOHN LEWIS CHILDS, INC., FLORAL PARK, NEW YORK

What Five Dollars Will Buy in "Best in the World" Nursery Stock



Hardy Plants in the Shrubbery Border

The purchasing power of the Dollar has greatly diminished during the past two years. Yet, because we know how to buy, and where to do it most advantageously, Elliotts, of Pittsburgh, have to-day stocks unimpaired by heavy demands and greatly hampered importation facilities. Your Dollars here will buy just as much of just as superb quality as they ever did—possibly more! Increased growing facilities and better ways to do things in all departments enable us to offer to American garden hobbyists greater values in bigger variety than ever before. Here are a few collections obtainable for \$5.00. Our catalogues, mentioned below, abound with liberal offers of this kind.

40 Unusual Hardy Plants and 12 Dahlias

A liberal Value in Newer Hardy Plants in 6 distinct classes, as follows, for \$5.00:

- 12 Hardy Phloxes, Best Varieties
- 6 *Liatris*, Kansas Gay Feather
- 6 Famous Hybrid Pyrethrum
- 4 *Buddleia variabilis* in four varieties
- 6 Choice Columbines in six varieties
- 6 Japanese Anemones, Assorted Varieties
- 12 Dahlias, Best Named, Our Selection

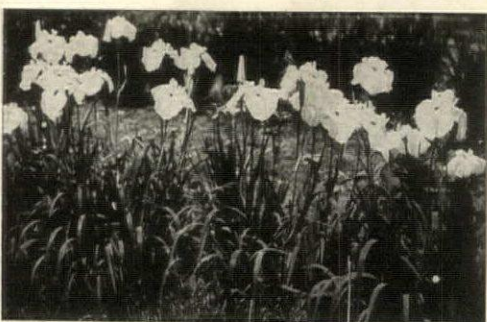
The lastly named Dahlias alone are worth \$1.50. This assortment is a typical value of the sturdiest obtainable in hardy plants. We cannot hope for artistic, interesting and more beautiful gardens in this country until *hardy* plants come to be used more generally. Use either collection above or below to help attain this desirable end.

Or 60 First Class Hardy Plants of Our Selection - - \$5.00

Made up to please the beginner, since it will acquaint him with 60 of the most dependable and popular standards among the favorites in hardy plants. All properly labeled, ready to grow in your garden.

Magnificent Collection of Iris, \$5.00

75 Splendid Iris assorted for \$5.00, including German, Japanese, Siberian, Pumilla (Dwarf), Dwarf Bearded and Native, a splendid collection of our selection of varieties. Bought separately, these Iris would cost a great deal more.



Japanese Iris, gorgeous beyond compare

Remarkable Bargains in Ornamental Shrubs

40 Flowering Kinds for \$5.00

Here is what we consider an Ideal "Suburban" Collection of Ten Choice Shrubs, four of each kind, to help decorate the surroundings of the Garden home. Their respective blooming seasons cover a long period, some are adorned with brightly colored berries all winter. Here is what 5 Dollars will buy in "The World's Best" Shrubs:—

A Garden of Glorious Roses \$5.00

25 Roses in 25 best varieties for \$5.00. This collection contains the best varieties of Hybrid Perpetuals, Hybrid Teas and Tea Roses in cultivation and includes the famous "Daily Mail Rose," Mad. Edouard Herriot, all strong, one year old plants, from pots and all grown on their own roots.



A Garden of Elliott Roses

4 strong, healthy plants each of

- Altheas, assorted
- Barberry, Japanese
- Rosa Rugosa, Japanese Rose
- Cornus stolonifera (Red Cornel)
- Regel's Privet
- Fortunei's Golden Bell (Forsythea)
- Lilacs
- Hydrangea paniculata grandiflora
- Deutzia Gracilis
- Spiraea, Van Houttei's Bridal Wreath

Though our prices will be found much lower than those of most nurseries, they stand for stock of unsurpassed quality. We want to encourage the planting of more shrubs. At our prices you can afford to plant them in quantities.

Unique Combination Offer

In their entirety the above four distinct offers represent one of the most unique and desirable collections of Nursery Stock. Send \$20.00 for all Four Assortments and we will add 1 strong plant each of

*The Four Finest Hardy
Climbing Vines for America*

Evergreen Bittersweet
Polygonum Auberti

FREE

Ampelopsis Veitchii
Clematis paniculata

Orders for Spring shipment booked now—why not write TO-DAY

ELLIOTT NURSERY CO.

379 Fourth Ave.,

Pittsburgh, Pa.

A Series of Catalogues

are mailed regularly every year to all who display interest in "The World's Best" Seeds, Bulbs and general line of Nursery Stock. Some Catalogues are ready now. Just send a postcard, mention this magazine and your name will be put on our mailing list. This will keep you in constant touch with horticultural progress as recorded at Elliott's! You will find the catalogues to abound with suggestions how to make the home surroundings more attractive. Please write NOW.

Do You Dare to Use Brilliant Color



Illustration from April House & Garden

Do you understand harmony by proportion?
By tone? By lighting?

Would you have the courage to put a brilliant blue Chinese jar against a soft grey wall on a table of black and red lacquer?

Would you dare to use black moiré walls, black velvet hangings, black teakwood furniture, and three odd-shaped brilliant orange cushions on black velvet davenport, to set off your own fair coloring?

If you love color, but are timid about using it in your home, you should consult the

Interior Decoration

Number

A P R I L

House & Garden

The distinctive note of modern interior decoration is the judicious use of brilliant color. This issue of House & Garden shows you how to get daring effects successfully; how to apply modernist principles to practical use; how to choose the right papers, hangings, and furniture, and how to group them successfully.

There is also a generous amount of garden advice for the April garden-maker, and several pages of house building helps.



If you have furnishing and decoration problems to meet this spring, be sure to reserve a copy of this Interior Decoration Number at your usual newsstand.

25 cents a copy

\$3 a



House on Fresh Pond Parkway, Cambridge, Mass.
Charles R. Greco, Architect, Boston, Mass.

ALL woods have certain uses for which they are especially adapted by reason of the peculiar qualities and characteristics which nature has given them; and on their proper selection for these uses hinges the whole problem of economy in wood construction.

Three centuries of experience in this country have demonstrated that no other wood lasts as long or gives such satisfactory service as

WHITE PINE

for outside finish lumber—siding and corner boards; window sash, frames and casings; outside doors, door frames and casings; outside blinds; all exposed porch and balcony lumber; cornices, boards, brackets, ornaments and mouldings; and other outside requirements, not including shingles.

If your lumber dealer is unable to supply White Pine, we should appreciate the opportunity of being helpful to you in securing it.

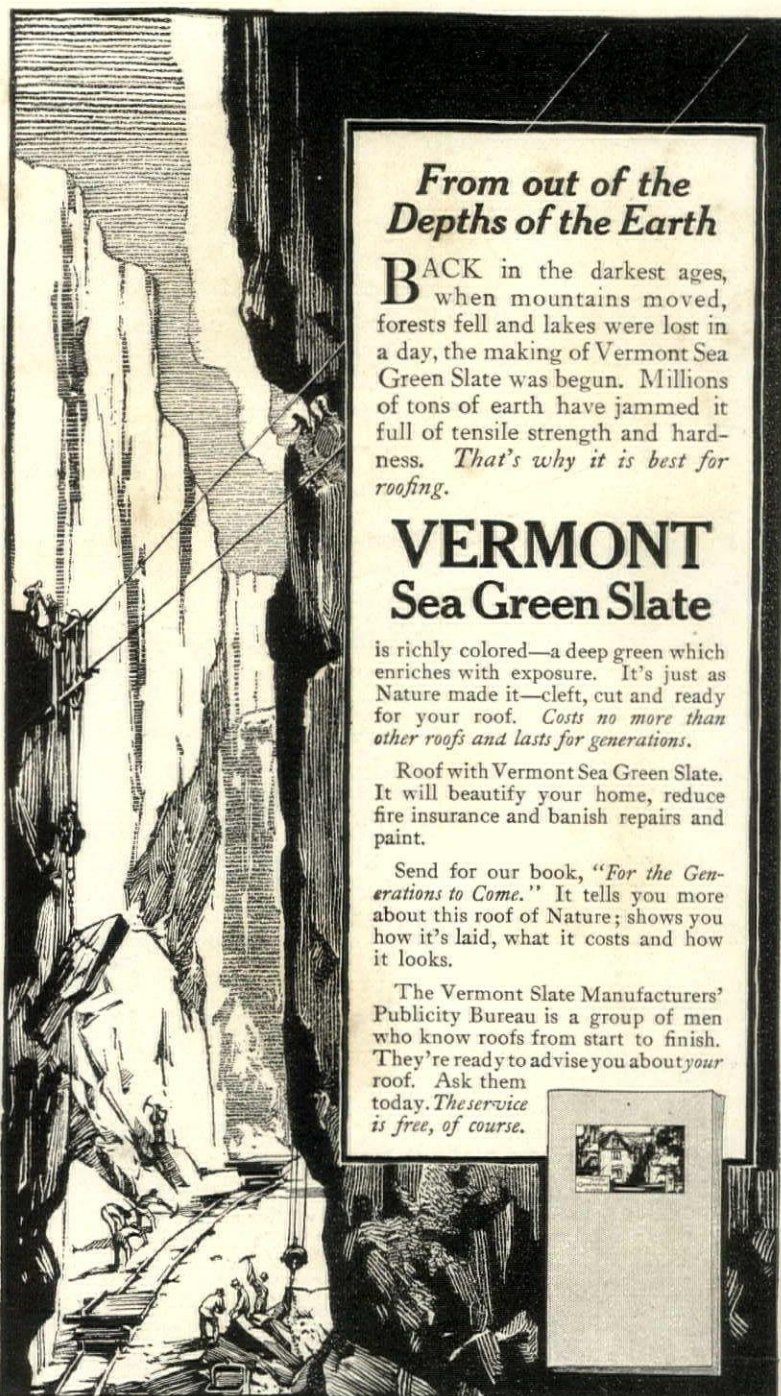
"White Pine in Home-Building" is beautifully illustrated and full of valuable information and suggestions on home-building. Send today for this booklet—free to all prospective home-builders.

"The Helen Speer Book of Children's White Pine Toys and Furniture"—a fascinating children's plan book, from which a child may build its own toys and toy furniture. Prepared by Helen Speer, the toy expert. If there are children in your home, sent free on request.

Address WHITE PINE BUREAU

1319 MERCHANTS BANK BUILDING, ST. PAUL, MINN.

Representing
The Northern Pine Manufacturers'
Association of Minnesota, Wisconsin
and Michigan, and The Associated
White Pine Manufacturers of Idaho



From out of the Depths of the Earth

BACK in the darkest ages, when mountains moved, forests fell and lakes were lost in a day, the making of Vermont Sea Green Slate was begun. Millions of tons of earth have jammed it full of tensile strength and hardness. That's why it is best for roofing.

VERMONT Sea Green Slate

is richly colored—a deep green which enriches with exposure. It's just as Nature made it—clef, cut and ready for your roof. Costs no more than other roofs and lasts for generations.

Roof with Vermont Sea Green Slate. It will beautify your home, reduce fire insurance and banish repairs and paint.

Send for our book, "For the Generations to Come." It tells you more about this roof of Nature; shows you how it's laid, what it costs and how it looks.

The Vermont Slate Manufacturers' Publicity Bureau is a group of men who know roofs from start to finish. They're ready to advise you about your roof. Ask them today. The service is free, of course.



THE VERMONT SLATE MANUFACTURERS' Publicity Bureau B, Granville, N. Y.

Please send me, FREE, your richly illustrated book, "For the Generations to Come." I am interested in roofing a (kind of building) _____

Name _____

Address _____

Hot and Cold Water in Your Country Home

Anywhere, any time, no matter what your water supply problems, you can have running hot and cold water for your country bath room, kitchen and laundry, and all the water you want in your garage, barn, garden or for fire protection.

Kewanee Water Supply System is the original air pressure tank system meeting every need. Ready for a lifetime of service and satisfaction as soon as shipping crate is removed. Easy to operate, hard to get out of order. Do not be satisfied with a makeshift called a system. You cannot get Kewanee Quality in any but the Kewanee Water Supply System.

Write for complete information and booklets describing these Kewanee Specialties:
Sewage Disposal Plants Gasoline Engines
Electric Lighting Plants Gasoline Storage Plants



50 Church St., New York City

1212 Marquette Bldg. Chicago

Formerly Kewanee Water Supply Company

401 South Franklin Avenue, Kewanee, Illinois

A New Chaise Longue for Porch or Interior

The Bombay Chaise Longue, illustrated, is woven by the master Craftsmen of the willow industry in a quality way. Made entirely of imported hand-peeled willow. Back is 26" high from seat and seat is 12" high from floor. Height of back from seat is 26". Price, \$16.00. Stained, \$3.00 extra. Solid color seat and back cushions are \$7.50. Cretonne seat and back cushions, \$10.50. Write for catalog.

MINNET & CO

Makers of High Grade Willow Furniture

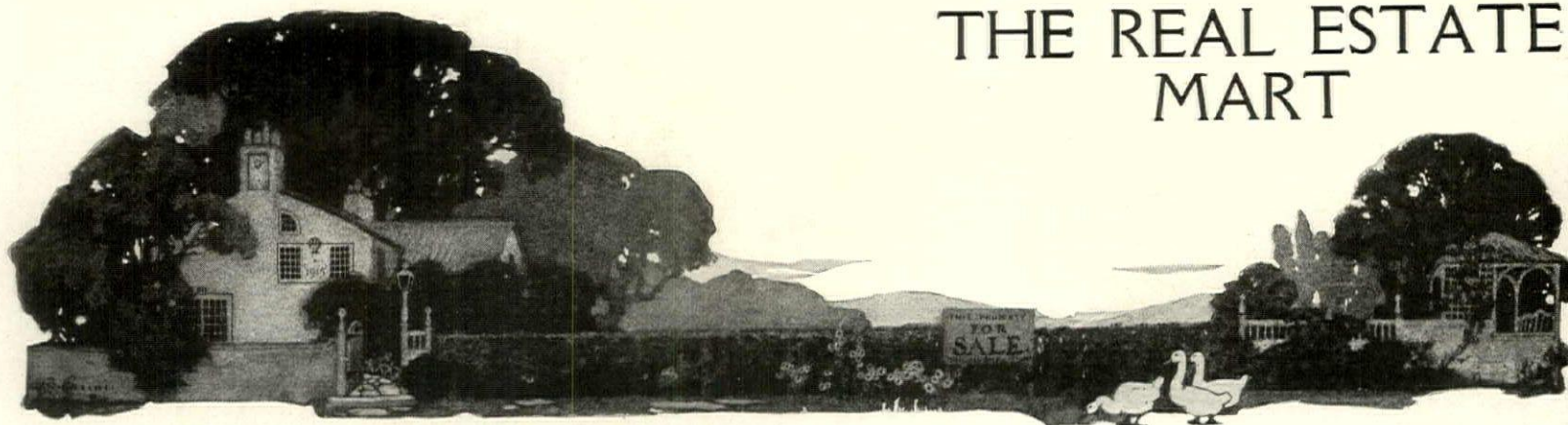
362 Lexington Ave.

Bet. 40th & 41st St.

NEW YORK



THE REAL ESTATE MART



COUNTRY ESTATES AND SUBURBAN PROPERTIES

The following properties have been carefully selected and are of excellent value:

Bay Shore, L. I. ("ELSAFLO") On the South Country Road.

A highly improved property of about one acre with comparatively new three-story frame dwelling, with combination stable and garage in rear, located in the best section of BAY SHORE. House contains 11 rooms and 4 baths. Hot water heat, parquet floor, gas and electricity. Upper floor of garage contains two rooms and bath, hot water heat and electricity.

Nyack, N. Y., "North Mountain."

This Estate is located on a hill 500 feet above the Hudson River and comprises 130 acres—30 acres of which are cleared for agricultural purposes, 10 acres occupied by lawn, buildings, roads and kitchen garden; 90 acres of woodland stocked with game. The residence is a three-story stucco building containing 17 rooms, 3 baths. Furnace heat and electricity. Gardener's cottage of 8 rooms and bath. Combination garage and stable. Outbuildings.

Netherwood (Plainfield), N. J.

831 Belvidere Avenue.

An exquisite suburban residence known as "SACMOORE," on tract of 2½ acres. The house is 2½-story, solidly constructed, containing 18 rooms, 4 baths. Combination garage and stable, together with small garage in rear. One hour from New York with excellent train service.

Forest Hills, N. J. (Newark).

767 Ridge Street.

A 2½-story frame residence—one of the prettiest homes in Forest Hills—built by a noted architect for his own home—less than 20 minutes from the heart of Newark. Frontage of 117 feet on Ridge Street and 100 feet on Montclair Avenue. House contains 14 rooms and 3 baths. Steam heat. Parquet flooring.

Cranford, N. J.

South East Corner Eastman and Miln Sts.

A three-story frame residence, suitable for restaurant, hotel or tea room, located on main automobile road to Philadelphia and New York. House contains 18 rooms. Garage in rear. Plot, 130x158.

Westfield, N. J.

Corner Elm and Walnut Sts.

An excellently located modern house—an ideal home. Contains 15 rooms and 3 baths, beautifully decorated and finished with hardwood trim throughout. Electricity and gas. The plot is 154x410. Beautifully laid out with Italian gardens, etc. One of the best places in WESTFIELD. Spacious garage in rear.

Elizabeth, N. J.

840 North Broad St.

A well located home in one of the best sections of Elizabeth. The house is of substantial construction, containing about 24 rooms. Size of plot, 200x525. Suitable for high class private school or other institution.

Low Moor, N. J.

On the Shrewsbury River and Ocean.

A three-story frame residence containing 13 rooms and 2 baths. Furnace heat. Also garage with 2 rooms upstairs. A frontage of 150 feet on the Ocean and 150 feet on the Shrewsbury River, with a depth of 610 feet. Ocean Avenue, which divides the property, is the main automobile thoroughfare of this section.

Highland Mills, Orange County, N. Y.

A high class summer hotel known as "HILLCREST HALL," with 150 acres bordering on a beautiful lake, together with seven furnished cottages, casino and garage; accommodations for 250 people. Adaptable for boarding school or sanitarium. Will be sold without regard to value of improvements.

NOTE:—My Country Estates Department will serve you in buying—or if you have property for sale, let me consult with you.

FOR BOOKLETS, PHOTOGRAPHS AND FURTHER DETAILS APPLY TO

Phone
744 Cort

Joseph Day

31 Nassau St.
N. Y. City

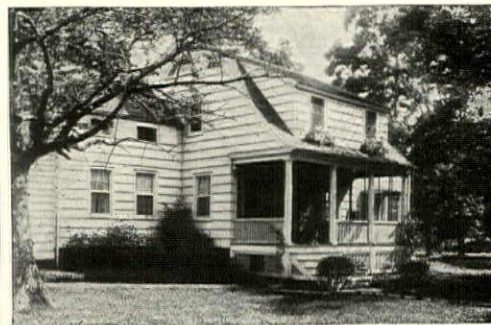
Country Estates Department

Despite The Unusual Demand

for country property this year, there are still many desirable places to be had, as the advertisements appearing here will show.

It is a fact, that at the present time there are more real bargains being offered than ever before. The Real Estate Mart, presenting as it does, a diversified list of property, be it either the attractive little sea shore bungalow or the magnificent country estate, offers a wide range to select from.

Should you require any assistance in your endeavors, please consider the co-operation of this department at your service.



FOR SALE

A Quaint Old Farm House

Artistically Remodelled and Situated Amid
Delightful Surroundings

with about two acres of ground. House contains large living room, six bedrooms and bath, kitchen and dining room; electric light, furnace, and is supplied with running water. There is an attractive garden with good fruit and beautiful old shade trees. This is a place that will be appreciated by anyone desiring a real country home that is well located and not too far away from railway station.

JEREMIAH ROBBINS

Babylon, L. I.

BAY SHORE "THE IDEAL RESORT"

On the shores of the Great South Bay. Always cool. Fishing, bathing, boating, golfing, excellent bridle paths and motor roads.

Furnished Homes and Estates

TERRY and BREWSTER

Phone 302

BAY SHORE, N. Y.



GENTLEMAN'S FARM

AN exceptional opportunity to purchase this desirable property, consisting of 3½ acres of well cultivated grounds with vegetable garden and a variety of fruit-bearing trees.

Newly built house (rubble stone) twelve rooms, all modern improvements, electric lighting and telephone

Mrs. F. HOEPFNER, Spring Valley, N.Y. or

connection. The stable and barn have facilities to accommodate both carriages and automobiles.

Its easy accessibility to New York City is of paramount importance. The property may be had furnished or unfurnished.

For terms and further particulars, apply to Owner.

care O. QUINCHE, 451 W. 166th St., N.Y.C.
Tel. 6583-M, Audubon.

I KNOW GREENWICH
and its environs, and can quote with definiteness the best purchase price or rental figure on its Estates, Cottages, Villas, Farms, etc., shore or inland.

Write, call or phone
LAURENCE TIMMONS
Op. R.R. Sta. Phone 456
GREENWICH, CONN.

THE REAL ESTATE MART



"PINEHURST" Great Barrington, Mass.

For Sale or to Rent Furnished—Delightful Town Property. 4 acres of lawns, gardens and orchard. Tennis court, stable, garage, children's playhouse, etc. Residence with all modern improvements—6 Master's rooms and 3 baths—4 servants' rooms and bath. Full particulars—Wheeler & Taylor, Great Barrington, Mass.

FOR SALE at Somerville, N. J.

Property of about 52 acres is situated on the Southern slope of the Watchung Mountains, overlooking the beautiful Raritan Valley. A never failing supply of pure cold water is always available.

The buildings: house, tenant house, garage, carriage house, barns, granary, chicken house, racks, etc., are all in excellent condition and convenient. The modern ten-room house stands on high ground, has hot water heat, two bathrooms with sanitary plumbing and is lighted throughout with gas. First floor is laid in quartered oak and foyer hall has paneled wood ceiling. Living and dining rooms have open fireplaces. Large, light kitchen, two large pantries. Four large chambers on second floor with closets, one chamber having an open fireplace. Two rooms for help. Barn has stalls for 3 horses, running water. Corn crib and granary. Modern chicken house; quarters for coachman.

I. W. VALENTINE 373 4th Ave., N. Y.

IF YOU WANT BEAUTIFUL GROUNDS

Whether large or small, have a plan for them by an experienced Landscape Gardener.

Promiscuous, hit or miss sort of planting never looks well and costs more in the long run than working to a definite plan. Planting plans by mail a specialty. Send rough sketch for estimate.

GEO. B. MOULDER Landscape Architect Smith Grove, Ky.

TO CLOSE ESTATE ATTRACTIVE HOME

All Improvements—With Barn Half Acre Plot
GERMAN VALLEY, NEW JERSEY
(Main Auto Highway to Morristown, N. J.)
Morristown Trust Company, Executor

FOR SALE

Old colonial mansion, opposite Fredericksburg, Va., and thirty-six acres of beautifully laid out grounds sloping to the Rappahannock River. The house has six master's bedrooms and three baths, ample servants' quarters with bath, electric lights, hot water heat and all necessary outbuildings.

I. W. VALENTINE, 373 4th Ave., New York City, N. Y.
Telephone Madison Square 1953

"Country and Suburban Houses"

A most complete and handsomely illustrated book designed to solve your building proposition. 9x12 inches. 38 complete designs with 138 illustrations. Colonial, Artistic, Stucco, Half Timber, and other styles of Architecture. Practical information. Estimates of cost. Floor plans with all dimensions. Special sketches.

Designs costing \$4,000 to \$25,000. Price, \$1.50 Prepaid
D. DEWSNAP, Architect, 203 Broadway, New York City

Garden City Home Bargain

Mortgage Company authorized sale, delightful home at low price; \$9500; 12 rooms, 2 baths, large sunny living room, open fireplace, electric lights, gas, sewer, 8 bedrooms, decorated, piazza, privet hedge, shrubbery, fine surroundings, tennis and golf nearby; easy terms.

F.W. SCUTT & CO., 336 Fulton St., Jamaica, L. I.
Attractive Long Island Homes

Fieldston

RIVERDALE - ON - HUDSON

242nd STREET and BROADWAY

The most desirable, attractive and accessible colony of homes in Greater New York



The substantial growth of this high class residential section is one proof of its attractive features.

Every desideratum of the homeseeker is obtainable. Its healthy environment, picturesque setting, city conveniences, good schools, all give

it exceptional advantages. Its accessibility is unequalled. It can be reached by the Subway, Elevated, New York Central and direct motor lines.

Descriptive booklet R and comparative cost of home construction and photos furnished on request.

DELAFIELD ESTATE

27 Cedar Street, New York

FOR SALE

Beautiful home containing six rooms, toilet and bath.

At South Norwalk, Connecticut.

Residential section of city. Nice neighbors. Good fishing, sailing and bathing, the property being directly on the water.

All modern improvements, including telephone connection, electric light, and up-to-date plumbing fixtures.

Ideal commuting distance to New York City, one hour and five minutes to Grand Central Terminal, express train service.

Note detailed description and full particulars in service column.

Address

Box 201, c/o House & Garden
440 Fourth Avenue, New York City



GENTLEMAN'S COUNTRY HOME

(Partly Furnished)

Bayshore, Long Island
ON THE GREAT SOUTH BAY

Modern all year residence, parquet floors, tiled baths (4), 6 master bedrooms, 4 servants' bedrooms, electricity and gas throughout, hot water heat, large porches on first and second floors enclosed with glass and screens, double storm windows, nearly 8 acres, 300 feet frontage on avenue; in exclusive eastern section. Right of way to private boat landing, one-half mile to station. Offered at attractive price.

TERRY and BREWSTER
Phone 302 Agents Bayshore, N. Y.
"Furnished Homes to Rent for 1917"



FOR SALE

SUPERB country property situated in the heart of the White Mountains at Littleton, New Hampshire.

The estate comprises a beautiful residence located on a plot 150' by 275' with all neces-

sary outbuildings and can be purchased with or without interior furnishings at a reasonable figure.

For further particulars communicate with owner.

H. P. WOODMAN

LITTLETON, N. H.

THE REAL ESTATE MART

MERRIEWOLD PARK Sullivan County New York



This Japanese Estate of 120 acres is offered for sale fully furnished and equipped and ready for immediate occupancy. Main dwelling built in Japan and exhibited by the Japanese Government at the St. Louis Exposition. In restricted preserve of 1500 acres with 2 large lakes. Elevation 1500 feet. 120 miles from New York. Nine hole golf course on property. Excellent hunting and fishing. 10 acres of Japanese gardens. Over 50,000 rhododendrons. Unlimited water supply. Fully illustrated circular sent on request.

Payson McL. Merrill Co., Inc.
Agent
9 East 44th Street, New York City
Telephone, Murray Hill 8300

FAMOUS GLADSTONE STOCK FARM



An exceptional opportunity to purchase at this time a gentleman's estate located in the Bernardsville, Far Hills section at Gladstone, N. J. Within commuting distance of New York City. Lackawanna Railroad (Club cars) near the Peapack Chevy Chase Hunt Club. Combining money-making farm and gentleman's home of 134 acres fully equipped with high bred horses, cows, chickens, all modern up-to-date machinery, tools and implements. Three streams, splendid residence, all modern appurtenances, beautifully situated on a knoll amid stately old shade trees. Up-to-date dairy and cow barns, horse barn and numerous other buildings necessary to a high class estate. For terms and booklet with photo apply to

LOUIS KAMM, Inc.

Brokers Solicited and Fully Protected

I. J. AUERBACH
SPECIALIST IN COUNTRY PROPERTY
16 Clinton Street, Newark, N. J.

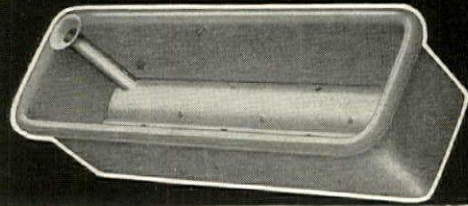
NEW YORK, NEW JERSEY
WESTCHESTER, LONG ISLAND
Telephone: 1400 Mulberry

AN ESTATE OF THREE ACRES Bronxville, N. Y.

HOUSE, TEN ROOMS, set in grove of century old trees and well kept lawns, overlooks gardens; stable, garage, chicken house, fruit. High grounds, surrounded by beautiful estates. The first time offered at bargain price.

Griffen, Prince & Ripley, Inc.
18 East 41st St., New York City

Savo FLOWER AND PLANT BOX



PATENTED—JAN. 23rd, 1917

Made of Heavy Galvanized Steel

Self Watering — Sub Irrigating
waters the growing plants from the bottom making longer roots and better plants, leaving top soil mealy and loose. Pour water in the tube once a week. Perfect air circulation and drainage.

All Year Round Flower Box

Savo Flower Boxes are leak-proof and rust-proof. No transplanting—you can move Savo Boxes indoors or out when desired and have beautiful Flowers and Plants the year round.

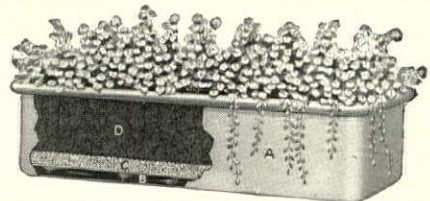
For Windows Porches Sun Parlors

Six sizes—artistic in design and beautifully finished in Aluminium, Gilt or Dark Green

Write for **FREE Booklet**

SAVO MANUFACTURING CO.

Dept. C, 39 So. La Salle Street, Chicago, Ill.



A—Outside body of box. B—Water in the double arched reservoir. C—Layer of coarse gravel over perforated arches. D—Soil above with growing plants.

Free Information

OUR Service will send you complete information about what to use in building or decorating, remodeling or refurnishing your home

Information Service, HOUSE & GARDEN, 440 Fourth Ave., N. Y.

Roster of Reliable Real Estate Brokers

The standing of the concerns whose names appear in this column have been thoroughly investigated by the Real Estate Department of this magazine and are cordially recommended to our readers as being strictly first-class—As specialists in their respective localities and environs, they are especially qualified to cater to your requirements—Communications addressed to them will bring prompt and authoritative replies.

BURKE STONE, INC., Offices, Bronxville and Tuckahoe, N. Y.

TERRY & BREWSTER, Bay Shore, Long Island.

GEORGE E. BEARN, Greenwich, Conn.

E. T. DAYTON, Main Street, E. Hampton, L. I.

ANGELL & CO., Scarsdale, N. Y.

NORTH SHORE, J. Hart Welch, Douglaston, L. I.

GEORGE HOWE, 527 Fifth Avenue, New York City.

COUNTRY PROPERTY, Frank H. Knox, 51 State Street, Albany, N. Y.

JOHN HILL CARTER, Leesburg, Loudoun County, Virginia.

WILLIAM H. MILLS, Along the Sound, Among the Hills, 7 East 42nd Street, New York City.

EDW. G. GRIFFIN & P. H. COLLINS, National Bank Bldg., Larchmont, N. Y.

MISS LEWIS, Specialist in Suburban Homes, 500 Fifth Avenue, New York City.

SOUTH SHORE, L. I., Jeremiah Robbins, Babylon, L. I.

H. NELSON EMMONS & CO., Buzzards Bay and Cape Cod; Offices, Boston, Mass.

JOHN KNOX, Chamber of Commerce, 185 Church Street, New Haven, Conn.

FARMS & ESTATES, E. E. Slocum, Inc., 141 Broadway, N. Y. C.

CARL C. LOH, 9 Orchard Street, Tarrytown, N. Y.

NORTH SHORE, J. Hart Welch, Douglaston, L. I.

NORTH SHORE OF LONG ISLAND, Stephen Yates; Office, 243 W. 34th Street, N. Y. C.

WILLIAM S. CHAPPELL, New London, Conn. Est. 1887.

DEVERELL & CO., Offices, Claremont and Newport News, Va.

BERKSHIRE ESTATES—Wheeler & Taylor, Great Barrington, Mass.

MATTHEWS & COMPANY, Cambridge, Maryland.

WALTER B. HOWE, INC., Princeton, N. J.

SHORE ESTATES, Gardner R. Hathaway, Marblehead, Mass.

C. H. BRADLEY, Dover, N. H. Farms and Summer Homes.

NORTH SHORE OF LONG ISLAND, Long Island City—Manhattan, Burton Thompson & Company, Inc., 10 Wall Street, N. Y. C.

NEW ROCHELLE PROPERTY, C. B. Allen, Huguenot St. Phone 746.

VIRGINIA FARMS, John Hill Carter, Leesburg, Loudoun County, Virginia.

J. STERLING DRAKE, 29 Broadway, New York City. New York, New Jersey and Connecticut.

NEW JERSEY FARMS FOR SALE, A. Updike & Son, Trenton, N. J.

GEORGE L. DELATOUR, 38 Park Row, N. Y. Acreage Farms and House for Sale in New Jersey.

ROBERT E. FARLEY ORGANIZATION. Biggest real estate office in the world. Properties in Westchester County, Long Island and everywhere adjacent to New York City. Country Life Exposition, Grand Central Terminal, New York City.



Play House

Screened House

Dutch Colonial Bird House

Lattice Front Garage

Poultry House

HODGSON *Portable* HOUSES

Are you thinking of erecting a small building? If it's anything from a bird house to a cottage—listen. Imagine doing away with the trouble, worry and extra expenses that go hand in hand with building. Imagine buying the best lumber all finished, painted and fitted—ready to be put together in a jiffy to form the exact house you want. That's exactly what buying a Hodgson Portable House means.

There are Hodgson bungalows, garages, play houses, screen houses, chicken houses, dog houses and every other kind of houses imaginable. Get a catalog and you'll see them all. They can be quickly and easily erected by unskilled workmen. They withstand all kinds of weather.

Here is the best way to buy. By paying 25% of the price of your house we will prepare and hold it until wanted. This saves you money and insures prompt delivery. Our catalog is illustrated with photographs—and prices, too. Send for it.

E. F. HODGSON COMPANY

Room 226, 116 Washington Street, Boston, Mass.

6 East 39th Street, New York City



Cottage

Problem: How Can I Sell My House?

Advertise it in the House & Garden Real Estate Department. Our columns are followed continually by prospective purchasers and tenants and by brokers who are looking for a place to meet the requirements of various clients. Get in touch with the Manager of the Real Estate Department either by 'phone, letter or personal call. He will be very glad to supply you with full information regarding this department.

Buy a Country Home NOW

More real estate bargains are being offered now than ever before. To find the kind of property you want, communicate with the Real Estate Service Department of House & Garden. We are in constant touch with real estate brokers who specialize in selected sections throughout the country. Men who can find you the kind of property you want if it is obtainable.

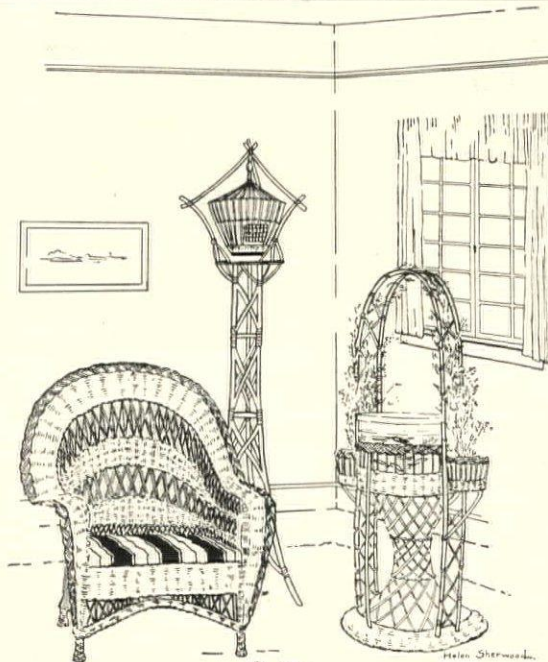
Manager of Real Estate Department

HOUSE & GARDEN

440 Fourth Avenue

New York City, N. Y.

Telephone, 2692 Madison Sq.



Do you long for the warm sunny days of Spring?

Why not be prepared by placing your order for Whip-O-Will-O Furniture today, delivery to be made when needed.

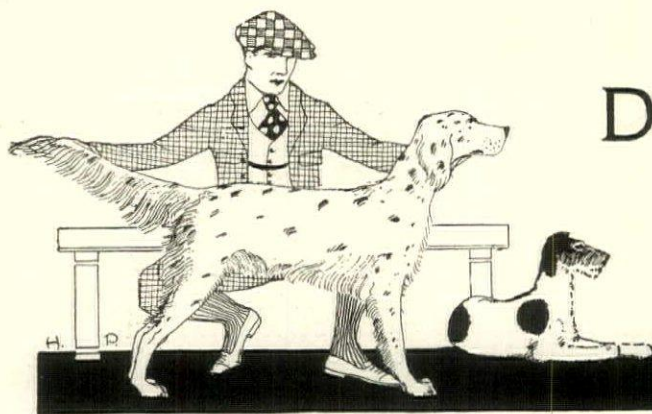
Whip-O-Will-O Furniture is manufactured exclusively by us. We have no retail dealers.

May we send you our illustrated catalogue and price list?

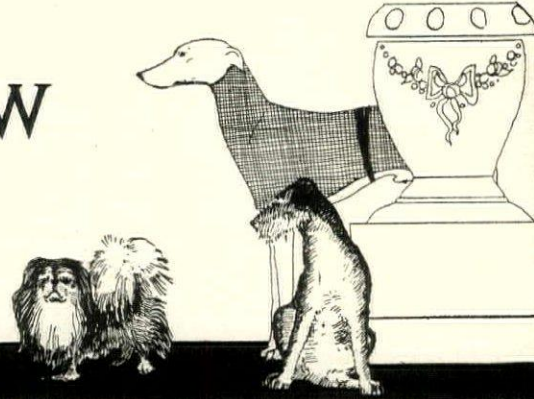
WHIP-O-WILL-O FURNITURE CO.

352 Adams Avenue

Scranton, Pa.



THE DOG SHOW



Airedale Terriers



I AM OFFERING STOCK

From the greatest living sires Champion Soudan Swiveller, Gold Heels and King Oorang. The Airedale is the best dog ever bred for the house, country or farm. Brains, beauty with physical development our specialty. Puppies and grown stock, also registered brood matrons for sale. Safe delivery guaranteed. At stud

My latest imported Airedale

Brayvent Moray Royalist

a blue ribbon winner in both England and America. Stud fee, \$25. Prices reasonable. Shipped on approval to responsible parties.

THOMAS KERRH BRAY

232 Clark Street Phone 424M Westfield, N. J.

Airedale Terriers

Most useful dog

alive. (1) Best

watch dog,

alert, brave,

sensible. (2)

Peerless stock

dog, kills bob

cat, coyote,

mongrels. (3)

Great orchard dog.

(4) Wonderful hunting dog, used by

Roosevelt and Rainey. (5) A poultry

insurance policy, sworn enemy of

skunk, weasel, coon, rats. (6) The

child's companion, playful, no mean

ways, free from rabies, fine guardian.

(7) A money maker, good bitch earns

upwards of \$200 a year, puppies sell

readily, raise themselves, hardy. We

have the best thoroughbred stock.

Satisfaction guaranteed. Send for

booklet. AT STUD, International

Champion Kootenai Chinook, fee \$25.

Puppies, grown stock, bred bitch for sale

Vibert Kennel, Box 14a, Weston, N. J.



The Sweetest of all Toy Dogs for Gift

For your Wife, Daughter Sweetheart or Son

Trick White Sil

Poodles, White Sil

Maltese Terriers.

P O M E R A N I A N S

WHITE, CHOCO

LATE, BLACK and

SABLE.

PEKINGESE, ver

small.

BOSTONS, FRENCH

BULLS, FOX TER

RIERS.

PUPPIES and GROWN DO

all bred from Imported Sto

and Prize winners.



We-We, a Pekingese, weight 3 1/2 lbs., from imported Stock Heavy bone.

Duty free on all thoroughbred dogs going from Canada to the United States.

Buy here and get a healthy dog. All dogs house raised.

Trick dogs always on hand.

MRS. H. E. SHORT

ST. THOMAS

ONTARIO

PEKINGESE FOR SALE

Beautiful red male, 10 months, broken to lead. Sire "Suns Queen," Dam "To Foy, of Llenrur." Price, \$150.00.

Also 1 Biscuit male puppy 2 months old. Sire "Beauti Boi," Dam "Verity Fantail" (imported). Price, \$75.00.

MRS. VAN FLEET RYERSON, Storm King Kennels Cattery, Newburgh-on-Hudson, R. D. No. 2

POLICE DOGS

Puppies a Specialty

Ask for Illustrated Booklet

PALISADE KENNELS
East Killingly, Conn.



THE BLUE GRASS FARM KENNELS OF BERRY, KY.

offer for sale, Setters and Pointers, Fox and Cat Hounds, Wolf and Deer Hounds, Coon and Opossum Hounds, Varmint and Rabbit Hounds, Bear and Lion Hounds, also Airedale Terriers. All dogs shipped on trial, purchaser to judge quality. Satisfaction guaranteed or money refunded. Sixty-page, highly illustrative, instructive and interesting catalogue for ten cents in stamps or coin.



New York Dog Exchange, Inc.



Giant St. Bernard, Great Danes or Newfoundland Pups, German Shepherds and Dobermans, English, French and Boston Bulls, Dachshunds, Airedales, Chow-Chows, Toy Spaniels, Pomeranians, Scotch Collies, Pekingese, Italian Greyhounds, Persian and Angora Kittens.

Always the Best — At Lowest Prices
221 Third Avenue New York

CHOW CHOWS

3 WINNERS OUT OF 3 SHOWS

Puppies and Grown Dogs For Sale

AT STUD

CH. YUN NIPPON

MIN-TONG

BONFIRE

Fee \$30

Fee \$25

Fee \$25

Springfield Chow Chow Kennels

On Merrick Road, cor. Delaware St.

SPRINGFIELD, L. I.

Telephone 1922 Springfield

AIREDALES

Large, heavy boned, rich coated pups country raised. Ideal pets for your boy or girl—just the dogs for Town and Country. Pups that will average 50 lbs. at maturity. Certified guaranteed pedigree. Prices \$20 and upward. Satisfied customers in every State. National Bank references. Write for illustrated booklet.

JOHN F. LAWLOR, ORANGE MOUNTAIN, West Orange, N. J.



Milnshaw Kennels

Toy Pomeranians, Pekingese, Brussels Griffons, Toy white French Poodles, Bulldogs, Boston Terriers, and all other breeds. I sell my dogs on their merits, and guarantee them absolutely as represented. Veterinary examination allowed.

Call, Write or Phone to

JULES FEROND

424 Sixth Ave., New York City

Tel. Farragut 380

RUSSIAN WOLFHOUNDS

Ideal companions.

Puppies and grown hounds for sale.

Delaware Valley Farms, Titusville, N. J.

MRS. JACK GORDON offers for sale a beautiful young son of her famous blue Champion Neila Billi III ex Hebe, a daughter of Ch. Sir Ko Ko. His pedigree is everything that could be desired, including seven English and American bred champions in four generations.

He is a replica of his sire, having gorgeous copper eyes, grand type and bone, pale blue color and lovely coat of exceptional quality.

For further particulars address.

571 Natoma Street, San Francisco

Tel. Market 8520

AIREDALES—"Can do anything another dog can do, then whip the other dog." We offer stock of the highest quality and breeding in: Pups—male and female—spayed females. Grown Dogs—some housebroken—trained hunters—watch dogs. Matrons—either open or bred. Stud Dogs—of unquestionable merit.

COLLIES—Ours are from the famous FOXALL strain. Pups—male and female—spayed female—S. & W.—also WHITE. Grown Dogs—for watchdogs—sires—companions. Matrons—open or bred.

OURS IS A UNIQUE WAY OF SELLING—Sales Sheets. P. L. SAVAGE, ST. CHARLES, ILL.

HILTERFAR KENNELS REGISTERED

IRISH TERRIER

Puppies and Grown Stock For Sale

Post Office Box No. 104, Morristown, N. J.

Telephone 873 Morristown



PEKINGESE

Fifty grown dogs and puppies, all ages, color, large number imported. Many "sleeve" specimens. All Champion bred, selected from the first Kennels in Europe and America. Some as low as \$25. Write for descriptions and pictures.

MRS. H. A. BAXTER

GREAT NECK, L.I. 489 FIFTH AV.

Tel. 418 Tel. 1236 Vande

MRS. BYRON ROGER SEALYHAM AND CAIRN TERRIER

Puppies in both breeds for sale, from \$50.

Can be seen anytime but sent on approval. When writing for price lists send stamped envelope.

AT STUD, Weston Wait See, the sensational English winner. FEE, \$25.

AT STUD, English Champion Cairn Terrier, Northern N. parell. FEE, \$25, with choice of puppy, or \$30, without puppy.

LLANDOYLEY KENNELS PARK AVENUE, PORT WASHINGTON, L.

Telephone 231-W.

Dogs for Every Purpose

A pal for the boy. A playmate for the girl. A town-car or a dog for a country jaunt. Which do you want? Let us consult with you and advise without charge which dog is suited to your purpose.

Long experience—a host of satisfied customers—prices that are right. Write us before you make your decision.

HARGOUR KENNELS, Arlington, N.

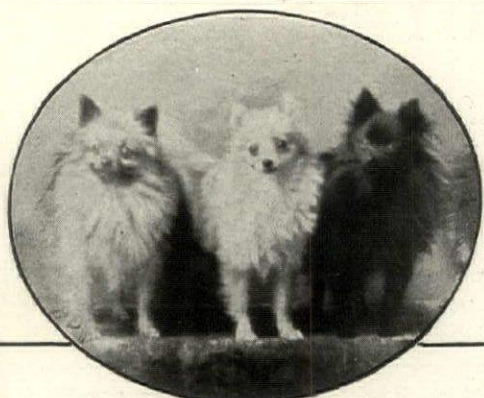
THE DOG SHOW

Airedales of Merit

Mentally and Physically Superior

Why not a puppy for a gift? A constant companion and a loyal guard. Nothing could be more appropriate. We have nothing but the best pedigreed stock. Bright, brainy and trustworthy. Puppies \$10 and up. Grown dogs and matrons. Will ship anywhere. May we send you one on approval?

North Penn Kennels, Hatboro, Pa.



POMERANIANS At Stud

Pioneer Wee Blackie—England's best black stud dog—3½ lbs.
Sunbright Blackie—4 lbs.—Black Dog.
Champion Perfect Harmony—Orange Sable.
Honey Sunbright—Pure Orange.
King Sunbright—Warm Wolf Sable.
General Mito—Miniature Wolf Sable.
High Class Grown Stock and Puppies for Sale.

The O. E. LAKELAND KENNELS, 42 Beauvoir Ave., Summit, N.J.
Phone Summit 537



Collies Only Patrick Tully
Owner

SARSFIELD COLLIE KENNELS

CLOSTER, N. J.

New York Office: 105-107 W. 31st Street

Sarsfield Collies at Stud

SARSFIELD
HERO

For Sale Russian Wolfhound Puppies

Sired by the best sons of Ch. Lasky and Ch. Zyclon and out of bitches by Ch. Zyclon, Ch. Lasky, Ch. Bistri, Ch. Westbury Rattler, Razloff O'Valley Farm, Ch. Khotni and other equally bred bitches. This is a very classy lot of puppies and are priced to sell. Send 10c for catalog.

ARKANSAS VALLEY KENNELS, Cimarron, Kansas

AIREDALE TERRIERS

Disposal Sale of Airedale terriers, puppies, grown dogs, brood bitches and show stock. The Quality kind from Registered and Winning stock. Every dog registered and guaranteed. Prices, \$20.00 and up.

WOLLATON AIREDALE KENNELS

Richard A. Kearns, Jr., Owner

Box 572, COATESVILLE, PA.

Quality Working Collies

From free range, hardy. Northern dogs, combining breeding and beauty with utility. Only young stock for sale. State use for which dog is intended.

Bower
&
Hayford
Props.

Harleston Collie Kennels
Hallowell, Maine



America's
Pioneer
Dog Remedies

BOOK ON

DOG DISEASES

And How to Feed

Mailed free to any address by the Author

H. CLAY GLOVER CO., Inc.
118 West 31st Street NEW YORK

WHITE SCOTCH COLLIES

The dogs for city, suburb, farm or ranch. At the mountain, prairie, seaside or woods, the White Collie is the great pet and companion. The partner of the boy in his hikes and the fearless protector of the girls on their rambles in the country. The comfort of the mother who wants a fearless guardian of the home and children. The best help on the farm, having been from time immemorial the great cattle and sheep dog. Also herd poultry, pigs, goats, etc. A great ornament to city or country grounds. A stunning companion for young ladies on walking, autoing or horseback trips, as the White Collie is the most beautiful aristocrat of dogdom.

\$300.00 A YEAR

A pair will raise three or four hundred dollars' worth of puppies a year, as they have two large litters each year (sometimes as many as twelve in a litter). Fine gifts for your friends from your country place. Stand the climate anywhere from the Gulf to Northern Canada. Ours are hardy country raised pedigree stock, having the true Collie "expression" and conformation. They are lithe, graceful, hardy (no artificial heat needed in coldest winters), brave, gentle with children, faithful, intelligent, beautiful, tireless, prolific. Probably only kennels in the world where unrelated pair of Whites can be furnished. Prices very reasonable, to suit all pockets. Kipling says, "Buy a pup and your money will buy love unflinching that cannot die." Every child has a right to be brought up with a dog. We have two fine litters of spring pups that will make grand dogs before the winter shows. Address

THE ISLAND WHITE COLLIE KENNELS



The '1000' Collie - Rob - 1st
referred to

DEPT. H.C.

OSHKOSH, WIS.

HEMLOCK HILL KENNELS

CLYDE STREET

BROOKLINE,
MASS.

SEALYHAM TERRIERS



Conejo Kennels

Chas. Trayford, Mgr.
HUNTINGTON, L. I.
Tel. Huntington 290

OFFER AT STUD:

Wire Haired Fox Terriers	Celebrated Conejo Wyecollar Boy.....Fee \$50
	Ch. Glycerol Salex....." \$25
	Conejo Parcel Post (Sire of Sensational)....." \$25
	Conejo High Brow....." \$25
	Conejo Hard Nut (Winners Phila. 1916)....." \$25
West Highland Terriers	Ch. Dunvegan Hero....." \$25
	Ch. Ardoch Chief....." \$25

PUPPIES AND GROWN STOCK FOR SALE.

Western Bred Airedales

If you are looking for a good dog—big, hardy, game, and bred outdoors from highest class parents with the natural hunting and fighting instinct, try a pup from our kennels situated at the foot of "The Grand Old Rockies" with bear, lion and bob cat within a half day's walk. Ideal conditions for raising and training Airedales.

OZONE KENNELS, Frank Slayton, Prop., FORT COLLINS, COLORADO

MYERS SPRAY PUMPS

Myers
Portable
General
Purpose
Sprayer
Fig.
1736



Protect the young buds and leaves of your trees, flowers, shrubbery and vines against destructive insects and scales which quickly blight and destroy their growth. By spraying early in the spring with a Myers Spray Pump and the right solution your plants will develop perfectly as nature intended.

This handy outfit, chosen from our complete line of Bucket, Barrel and Power Sprayers, can be used not only for general spraying but also for whitewashing, disinfecting and cold water painting—an all purpose machine for many uses.

Write for Myers Spraying Catalog for 1917.

F. E. MYERS & BRO.,
350 ORANGE STREET,
ASHLAND, OHIO

Ashland Pump & Hay Tool Works

If you do not find advertised here just the dog you wish, perhaps we can find it for you. In writing state breed preference, and the approximate amount you wish to pay.



ANCHOR POST FENCES

Pasture Fences—Stock Paddocks—Poultry Run Enclosures—Piggery Enclosures—Kennel Yard Enclosures, etc.

We are specialists in designing and building modern fences and enclosures, of all kinds, for live stock, poultry and game. Owners of farms and country estates will find our Catalog interesting reading.

Write for special farm fence Catalog No. 4.

ANCHOR POST IRON WORKS

11 Cortlandt St. (13th Floor) New York



Just the dog you want. All breeds, all ages and at prices to suit everyone's purse.

COLONIAL DOG MART

New York's Largest Dog Shop

43 WEST 46th STREET

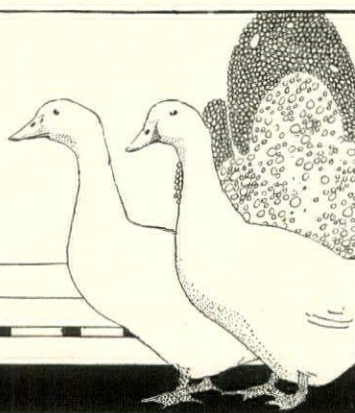
Just West of Thorley's.

Telephone Bryant 5135.

The quality of our stock, our courtesy to visitors and the sanitary condition of our shop has earned us an enviable reputation.



THE POULTRY YARD



Homestead Silver Campines

The Vigorous Strain

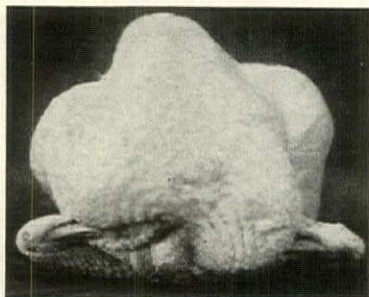
HOMESTEAD — The Word that DOMINATES in the world of Campines.

Our beautiful new catalogue will give you full description and history of this remarkable breed of fowl. Price, 15 cents.

Homestead Campine Farms
Box H-G Wayland, Mass.



First Prize Cock, Palace Show, 1916



An untouched photograph of one of our Speckled Sussex Roosters

QUALITY—In Table Poultry

is found in

ENGLISH SUSSEX FOWL

Speckled Sussex, Red Sussex, Light Sussex. Eggs, \$7.50 per Setting of 15

For Information write

RED JACKET POULTRY FARM
W. M. Patteson Penn Yan, N. Y.



G. D. TILLEY, Inc.

Naturalist

"Everything in the Bird Line from a Canary to an Ostrich"

Birds for the House and Porch
Birds for the Ornamental Waterway
Birds for the Garden, Pool and Aviary
Birds for the Game Preserve and Park

Special Bird Feeds

I am the oldest established and largest exclusive dealer in land and water birds in America and have on hand the most extensive stock in the United States.

G. D. TILLEY, Inc., Naturalist
Box H. Darien, Conn.



African and Toulouse Geese, Pekin, Rouen and Black Orpington Ducks, Pearl and White Guineas, S. C. White Leghorn and R. I. Reds.

Day Old Chicks, Ducklings, Goslings and Hatching Eggs.
Chicago, New York, State Fair and City Winners. 1917 Catalogue on request.

ROY E. PARDEE
Box 495A Islip, L. I., N. Y.

The Coming Hobby—Pigeon Fancier

B. PETERSON, DELMAR, N. Y.

Fancier, Exhibitor and Dealer of all varieties of Exhibition, Performing and Utility Pigeons. I have won the highest honors at the big shows. Can furnish collections of fancy and rare varieties or can supply prolific stock for squab breeding. Correspondence a pleasure.

Lester Tompkins' Rhode Island Reds

The originator of this, the greatest laying strain on earth.

Also win in the strongest competition wherever shown.

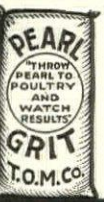
Send for mating list—stock and eggs.
LESTER TOMPKINS, CONCORD, MASS.

PEARL GRIT

Every Hen an Egg Factory

They can't help laying when they get PEARL GRIT. It "chews" the food in the gizzard, and adds sulphur and carbohydrates for eggs, lime for shells. Booklet free. Write today.

THE OHIO MARBLE CO.
Cleveland Street, Piqua, Ohio



Rhode Island Reds

TRAPNESTED STOCK

BREEDING COCKERELS, early hatched, free range birds from record winter layers. Large, hardy, hen-hatched. Long backs, short wide-set legs, low tails. Brilliant glowing deep red. BREEDING PENS, trios. PRIME YOUNG BREEDING HENS; EARLY HATCHED PULLETS. Heaviest winter laying Reds in America. Laying rates 211 to 279 eggs. NON-BROODY. Upright dealings, safe delivery, prime stock. Hatching eggs. Booklet.

From a New York State Customer:

Finest birds I ever saw. I GET EGGS WHILE MY NEIGHBORS GET NONE.

(Signed) P. R. L.

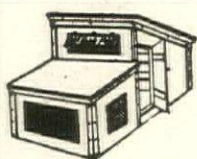
VIBERT RED FARM

Box 14, Weston, N. J.

Greider's Fine Catalogue

of fine poultry for 1917. 67 breeds described and illustrated, some in natural colors. Tells how to make hens lay, grow chicks, avoid brooder losses, build houses, prevent and cure diseases. Very low prices on breeding stock, brooding stock, hatching eggs and poultry supplies. Illustrates famous Greider Incubators and Brooders. This noted book, from largest poultry farm in Pa., a perfect guide to poultry raisers, only 10c. In business 25 years.

B. H. GREIDER - Box 26 - Rheems, Pa.



YOUNG'S Portable Poultry Houses

Better and cheaper than you can build.

Write for our free booklet showing 30 different cuts of large portable houses, coops, etc. Prices \$1 and up.

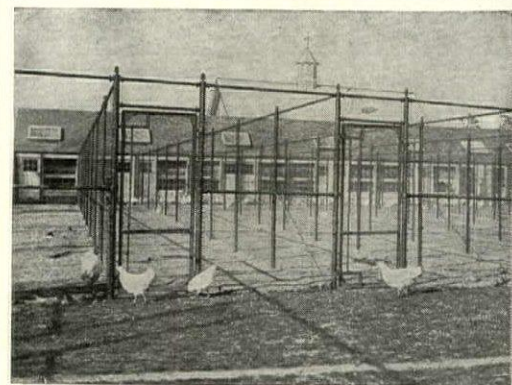
E. C. YOUNG CO., 18 Depot St., Randolph, Mass.



WE are now booking orders for eggs for Spring delivery on following varieties of pheasants: Silver, Golden, Ringneck, Lady Amherst, China, White, Mongolian, Swinhoe, Versicolor, Elliott, Impyan, Manchurian Eared, Melanotus. Also in Wild Turkeys, Japanese Silky Bantams and Longtails, Blue, White and Pied peafowl, as well as Wild Mallards and other fancy ducks.

Send fifty cents in stamps for color type catalogue of pheasants and how to raise, together with our new supplement.

CHILES & COMPANY Mt. Sterling, Ky.



ANCHOR POST POULTRY RUN FENCES

These Modern Fences are used and endorsed by a large number of the foremost poultry raisers, who recognize their marked superiority to any ordinary form of fence. They are practically indestructible, may be made rat and vermin-proof, and make it easier to keep the birds in a healthy condition.

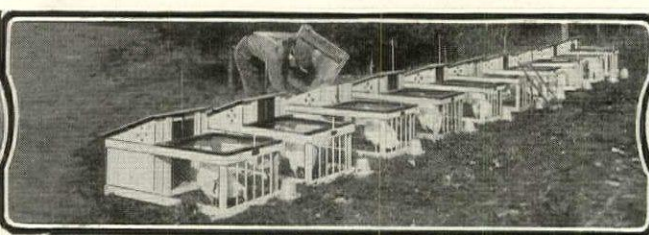
Write for our Catalog No. 4, describing them in detail.

ANCHOR POST IRON WORKS

11 Cortlandt St. (13th Floor) New York



No. 0 Poultry House



Pigeon House

Hodgson Portable Houses

This sanitary poultry house is an egg record breaker for 12 hens. The setting coops keep the hens by themselves while setting. The pigeon house (with its flight cage) is fitted complete for 10 nests. Hodgson poultry and pet stock houses are the most scientifically constructed on the market. Made of painted sections that can be easily bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY, Room 326, 116 Washington St., Boston, Mass.
6 East 39th Street, New York City

THE POULTRY YARD

The season is on! We are here ready to help you!

Now is the time to buy your hatching eggs, order your baby chicks and get the incubators, brooders and "old Biddy" down to business.

If you are not getting fertile eggs or if your chicks are weak or anything wrong with your laying stock, write at once to

THE POULTRY YARD

Care House & Garden

10 Fourth Avenue, New York City, N. Y.

For Sale—A Poultry Business

Incubation and Laying strain. Doing a good business home lot of one-half acre. Nine room residence, modern equipment. In a city of 7500. No agency. 100 buys business and home direct from

Owner, Box 375 Norwalk, Ohio



The Rockwood Farm's

"Rainbow" Partridge Plymouth Rocks win for beauty of shape and feather at New York, Atlanta, Boston and Panama-Pacific Exposition. Win as Layers at Egg Laying Contest.

Catalog 76, describing breed, building and feeding method, 10c.

THE ROCKWOOD FARM
Box 1119 Norwalk, Ohio

How Would You Like To Own

one of the best known POULTRY Farms in the U. S. Profitable established business, 150,000 day old chicks, hatching eggs and pullets sold to customers annually. Business growing at the rate of 40% a year. Fine modern plant and farm with large cherry orchard in connection. Situated in beautiful residence village in western N. Y., on direct route to N. Y. City. Pressure of other business only reason for selling. Owners will retain half interest if desired.
Address Box 115, Canisteo, N. Y.



Kerr's Guaranteed BABY CHICKS



Avoid trouble and uncertainty this season. Buy chicks "ready made"—as many as you want when you want them. Kerr's Famous Baby Chicks have set the quality-value standard for years. Better than ever for 1917, but still sold at "before-the-war" prices. Kerr's Chicks are big, husky and healthy, from free-range flocks of breeders which are selected for business ability. Will make big profits for you this season when eggs and table poultry bring high prices.

Fully Illustrated Chick Book Free

Write for it now. Learn how Kerr's breeding flocks are selected and managed. How the chicks are hatched in our great incubators which hold 200,000 eggs. How packed and shipped. Read the liberal Kerr Guarantee which protects every buyer. Study the practical chapter on chick growing which tells exactly how to successfully manage chicks from shell to maturity.

We mail the big book immediately upon receipt of your request.

THE KERR CHICKERY Box W Frenchtown, N. J.

Baby Chicks

18 VARIETIES

From the Shell to You

Stronger than Hen Hatched

Catalogue Mailed Free

North Side Poultry Co.

Desk A, 343 N. 7th St., ALLENTOWN, PA.

Distinction—Utility—Economy

The Martling Silver Campines



have the **DISTINCTION** of being the greatest prize-winning strain of any breed in America.

UTILITY—They are exceptionally heavy layers of large chalk-white eggs; are splendid table birds.

ECONOMY—They are 33 1/3 per cent less expensive to raise and keep than any other breed of fowl. Price-list of settings now ready.

Satisfactory hatch guaranteed

THE MARTLING HENNERY, P. O. Box 186 Y. Ridgefield, New Jersey



\$\$\$\$ IN PIGEONS!

Start Raising Squabs for Market or Breeding Purposes. Make big profits with our Jumbo Pigeons. We teach you. Large, free, illustrated, instructive book. Providence Squab Co., Dept. S, Providence, R. I.

Woodruff's Gladioli

The State Fair Premium Collection.



I will send, postpaid, one each Golden King, Baron Hulot, Eldorado, Queenly, Independence, Halley, Early Pink, Niagara, Pink Beauty, Mrs. Beecher, Princepine, Willy Wigman; 2 Primulius Hybrids, 5 Blue Seedlings, all marked, for One Dollar. Or, 2 each American, Mrs. King, Cracker Jack, Augusta, Queenly, Burrell, Cheerful; one each Princepine, Baron Hulot, Niagara, Golden King and 40 Select Mixture—all for \$1.00.
(3) Seventy-Five (75) Select Mixed without marks, \$1.00. New Catalogue of named sorts free.

S. WOODRUFF, INDEPENDENCE, IOWA
Must mention this magazine.

WANTED

Resident Landscape Architect by concern in Southern City.

Apply, giving experience, references, etc. to "Realestate" c/o House & Garden.

TREES

Everything for the Lawn, Orchard and Fruit Garden. Fruit Trees, \$10 per 100 and up. Shade and Ornamental Trees, Shrubs, Roses—at lowest prices. BUY NOW, before prices advance. New specialties: Rochester Peach, Butterfly St. Regis Everbearing Raspberry. for catalog. GROVER NURSERY COMPANY, 1st Bldg., Rochester, N. Y., established 1890. BUY DIRECT GROVER TREES GROW

MAJESTIC

bal Chute

protects house and ends and is a cellar now when not in Strong, durable burglar proof, by home should have

Write for Catalog THE MAJESTIC CO., Erie St., Huntington, Ind.

IN order to extend the scope and work of the Real Estate Mart in HOUSE & GARDEN, we have decided to add a new department. Every month our readers write in and tell us what they require in real estate, and this department will act as "Central," connecting buyer with seller and so put you in touch with the actual properties as they are listed. If you desire any kind of property just write in to us what you desire and where you desire it. State as fully as possible your wants and we will put you in touch with the party that has the very thing you want.

M 2 Attractive all-year home in thriving village at German Valley, New Jersey. On main auto highway—Newark to Hackettstown. (Less than one hour from Morristown.) House of seven rooms—bath—running spring water—steam heat—electric lights—with barn or garage. Half acre plot—about 70 x 325 feet.

Centrally located—convenient to school, churches, station and stores. Offered for sale at attractive price to settle Estate.

M 3 I desire to rent a place on the Hudson as near West Point as possible. Not an elaborate place, just a twelve or fourteen room house with an acre or two of ground.

I would consider Highland Falls, Garrisons, Cold Spring or Cornwall. I desire an unfurnished house and do not care to take possession until next August (1917).

THE REAL ESTATE MART—HOUSE & GARDEN
445 Fourth Avenue, New York

De Lue's Golden Giant SWEET CORN

The most important horticultural acquisition of recent years. Awarded the only Silver Medal ever given by the Massachusetts Horticultural Society for novelty and excellence in Sweet Corn.

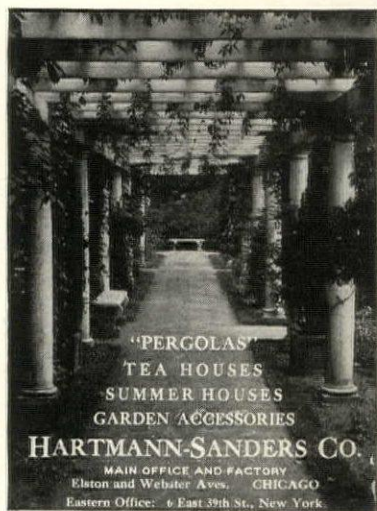
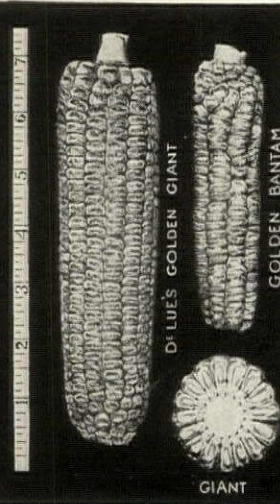
DE LUE'S GOLDEN GIANT is the result of eleven years' selection by Dr. Frederick S. De Lue of Boston, Mass., from the product of "Howling Mob" crossed with "Golden Bantam."

With its 12 to 16-rowed ears it gives nearly four times the yield per acre than the Golden Bantam does with its smaller 8-rowed ears. The stalks are short and frequently produce two ears each. Its orange golden color is richer; it is more delicious in flavor and is equally early.

To introduce DE LUE'S GOLDEN GIANT we offer a limited quantity in packets containing 25 kernels each at 25 cents the packet. Not more than 4 packets to any one customer, postpaid anywhere in the United States and possessions.

Our 170-page Annual Catalog and Gardeners' Guide, 450 illustrations, several colored plates and cultural directions, will be mailed on application.

JOSEPH BRECK & SONS
New England's Leading Seed Store for Nearly 100 Years
51 and 52 No. Market Street, Boston, Mass.



"PERGOLAS"
TEA HOUSES
SUMMER HOUSES
GARDEN ACCESSORIES

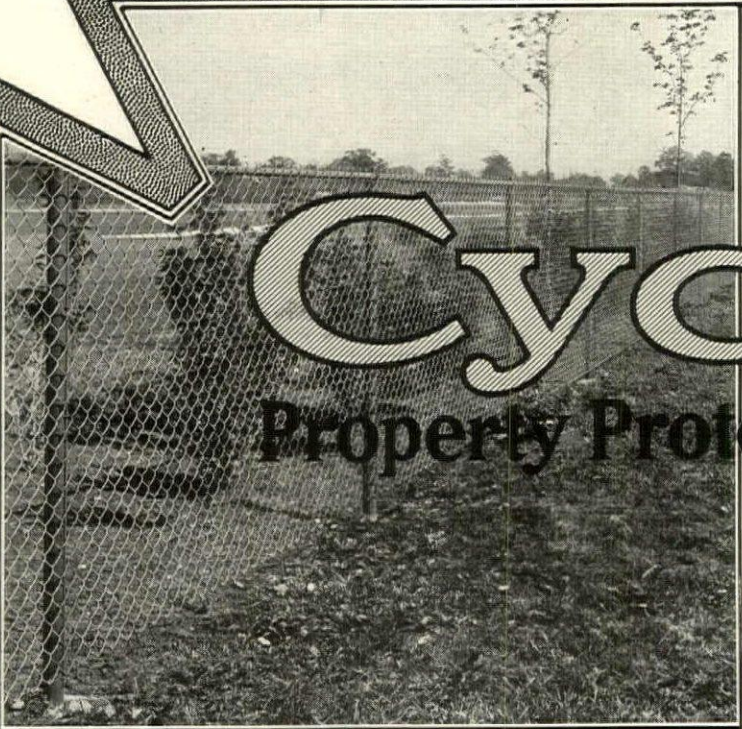
HARTMANN-SANDERS CO.

MAIN OFFICE AND FACTORY
Elston and Webster Aves., CHICAGO
Eastern Office: 6 East 39th St., New York

When Writing enclose 10c stamps and ask for CATALOGUE "P-29"

Flint's Fine Furniture
ORIENTAL RUGS & DECORATIONS
FLINT & HORNER CO., Inc.
20-26 WEST 36th ST.

GEORGE SYKES
COMPANY - INC.
40 WEST THIRTY-SECOND ST. NEW YORK
SPECIALISTS IN THE BUILDING
OF COUNTRY HOUSES



Cyclone

Property Protection Fencing Pays

HOW often have you seen really attractive and beautiful grounds fatally marred by being enclosed with an inartistic fence of heavy iron bars, suggesting the cold, forbidding appearance of a jail yard?

And how inwardly glad you have been to view the iron bars from the outside!

In contrast, how refreshing has been the pleasure, how delightful to the eye, to see the Cyclone Fence of quiet, refined taste, blending harmoniously with the beauties of God's great outdoors and modestly adding a pleasing decorative touch to nature!

Chicago, Ill.,
Dec. 8th, 1916.

Cyclone Fence Company,
Waukegan, Illinois.

Gentlemen: I enclose my check on the Continental & Commercial National Bank to your order for \$1266.86, covering your invoice of December 7th.

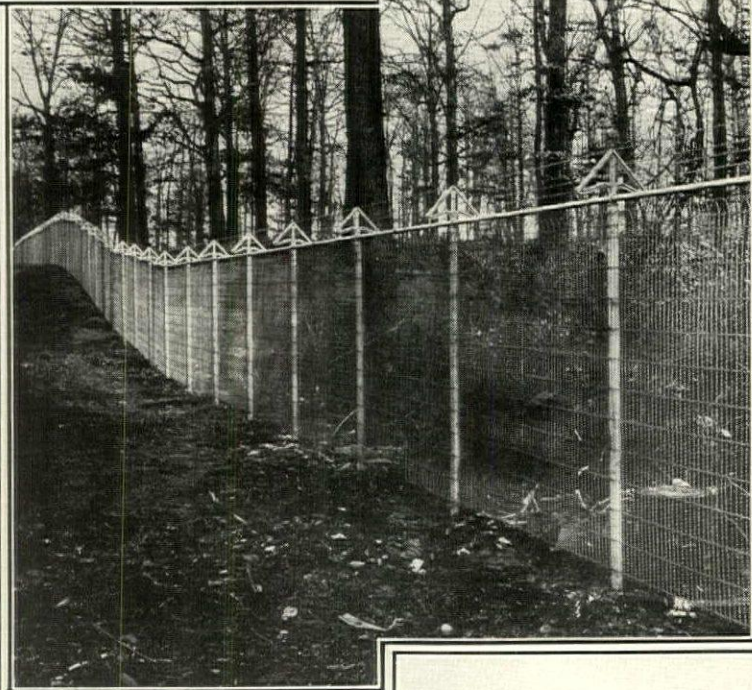
I wish to compliment you upon the excellent service you have rendered. The fence is very satisfactory in every way and is the subject of much commendation on the part of my neighbors, several of whom are ordering fences similar to it for their own use.

I should like to have you consider this an order for an additional amount of fencing on the north side of my place to extend from the present fence line clear down to the lake. You are at liberty to build this fence this Fall or next Spring, whichever time it can be done.

Yours very truly,

C. T. BOYNTON

CTB/M.



Cyclone Fence is the far-in-the-lead fence enclosing the most notable homes, clubs and public grounds. Affords maximum service with absolute, dependable protection.

Our expert engineers will take pleasure in advising with you free of charge regarding your particular fence needs.

Our free catalog, also, will be helpful to you. May we mail you a copy?

Write to office nearest you or to home offices at Waukegan, Illinois.

CYCLONE FENCE COMPANY

(The Master Fence Builders)

Waukegan, Ill. Dept. 147 Cleveland, Ohio

Branches: New York, Detroit, Chicago, Oakland, Cal.

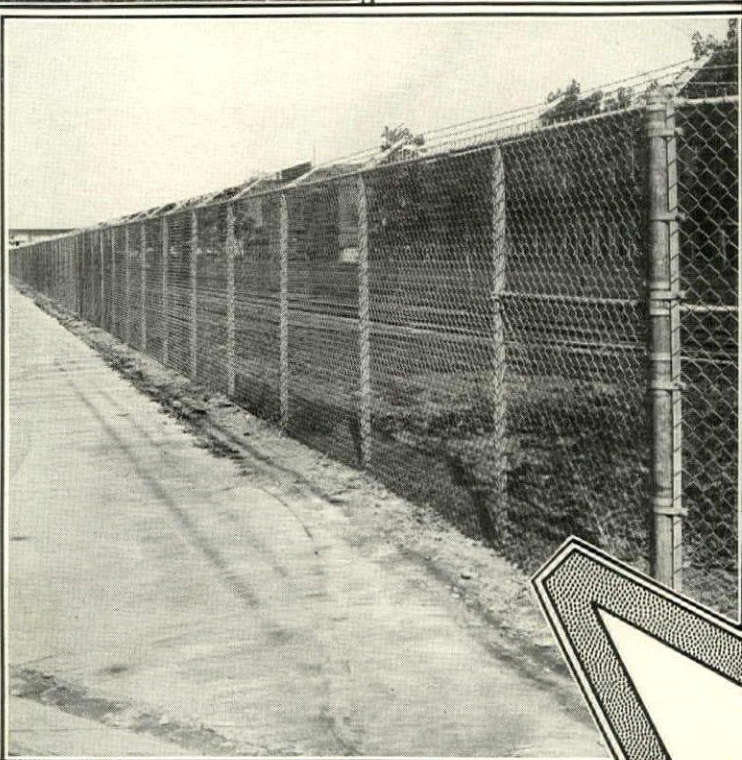
Cyclone Fence Co., Dept. 147, Waukegan, Ill.

Please send me free illustrated catalog on items checked below:

- | | |
|--|--|
| <input type="checkbox"/> Cyclone Property Protection Fence | <input type="checkbox"/> Cyclone Walk Gates and Drive Gates |
| <input type="checkbox"/> Cyclone Ornamental Lawn Fence | <input type="checkbox"/> Cyclone Farm Gates |
| <input type="checkbox"/> Cyclone Chain-Link Fence | <input type="checkbox"/> Hy-grade Iron Fencing and Gates |
| <input type="checkbox"/> Cyclone Cemetery Fence | <input type="checkbox"/> Hy-grade Window Guards and Grills |
| <input type="checkbox"/> Cyclone Vine Trellis and Arches | <input type="checkbox"/> Hy-grade Iron and Wire Work for Kennels, Poultry Houses, Zoological Gardens, etc. |
| <input type="checkbox"/> Cyclone Entrance Arches | |
| <input type="checkbox"/> Cyclone Flower-bed Border | |
| <input type="checkbox"/> Cyclone "4 in 1" Playground Outfits | |

My name

P. O. State



House & Garden

With which is incorporated
American Homes & Gardens

CONDÉ NAST, Publisher.

MARCH, 1917

Contents

VOL. XXXI, NO. THREE

COVER DESIGN BY E. F. Betts-Baines		THE LEGENDS OF THE MODERN NURSERY.....	34
FRONTISPIECE—A GARDEN OF PERPETUAL INTERESTS.....	14	<i>Agnes Foster</i>	
TULIP TIME IN THE GARDEN.....	15	AS TO FLOWERING EVERGREENS.....	36
<i>Mrs. Francis King</i>		<i>Grace Tabor</i>	
THE FLOWER IN THE CRANNIED WALK.....	17	THE NOBLE DANE	38
<i>Robert S. Lemmon</i>		<i>Williams Haynes</i>	
THE RESIDENCE OF D. G. HOLBROOK, ESQ., HARTFORD, CONN.	18	A LITTLE PORTFOLIO OF GOOD INTERIORS.....	39
<i>Russell Francis Barker, Architect</i>		MAKING THE NEW GARDEN	42
PLANTING A PINK GARDEN.....	20	<i>F. F. Rockwell</i>	
<i>Elizabeth Leonard Strang</i>		HOUSE & GARDEN'S GARDENING GUIDE FOR 1917.....	43
EDITORIAL	22	THE RESIDENCE OF J. J. HAMILTON, ESQ., FIELDSTON, N. Y..	47
<i>The Daffodils; by Sara Hamilton Birchall</i>		RICH COLOR IN THE NEW CHINA AND GLASS.....	48
WROUGHT IRON AND ROUGH CAST PLASTER.....	23	INTENSIVE METHODS AND THE VEGETABLE CROP.....	50
ANTIQUE DESKS AND THEIR APPRECIATION.....	24	<i>E. W. Ellison</i>	
<i>Gardner Teall</i>		THE GARDENER'S KALENDAR	51
CURLES NECK FARM, THE RESIDENCE OF C. K. G. BILLINGS,	26	SEEN IN THE SHOPS	52
ESQ., ON THE JAMES RIVER.....		PLANT FOODS AND FEEDING.....	54
FILLING THE SALAD BOWL.....	27	<i>D. R. Edson</i>	
<i>Eleanor R. Gillam</i>		NEW WALL PAPER BACKGROUNDS FOR THE VARIED LIFE OF	
FORTY-FIVE SECONDS FROM BROADWAY.....	28	THE HOUSE	55
THE TRUTH ABOUT DWARF FRUIT TREES.....	30	CARNATIONS AND THE OPEN BORDER.....	56
<i>William C. McCollom</i>		<i>W. R. Gilbert</i>	
THE PLUNDER OF THE PAST.....	31	NAMING THE COUNTRY PLACE	56
<i>Clifford Poppleton</i>		<i>John C. Thomson</i>	
CONTINENTAL COLOR FOR AMERICAN HOMES.....	32	ATTRACTIVE CONVENIENCES FOR THE HOUSE.....	57
CUSHIONING THE COUCH AND THE DAY BED.....	33	BRASS ABOUT THE HOUSE.....	58
		<i>Elizabeth Lounsbery</i>	

Copyright, 1917, by Condé Nast & Co., Inc.

THERE are two kinds of editing: "Thank God" editing and scientific. The former is the method used by an editor who doesn't know what to put in his pages, and when they are finally filled says, "Thank God;" and the scientific is a charted policy whereby the greatest possible variety of subjects is presented in the given confines of an issue.

The success of HOUSE & GARDEN in the past two years has been due to scientific editing, and the promise of the April issue—which is devoted to Interior Decorations—is based on those principles. In no number heretofore has there been scheduled such a wealth of practical suggestions. They start with the first page and keep on moving to the very last.

Modern decoration is defined by B. Russell Herts and illustrated with examples of the work of the most up-to-date decorators. It gives you the last word on what is being done along



Among the many interiors which will be shown in the April issue is this distinctive living-room

These are only a few of the thirty-two features in the April issue, covering not only house matters, but many timely garden topics as well.

these important lines today.

Furniture grouping is explained by H. D. Eberlein, who makes clear the modern methods whereby space and effectiveness can be attained by merely grouping this chair and that table as they should be.

The neglected third story rooms are considered by Beresford Stanton, a third decorator who shows how they can be created into interiors of real interest and value.

Bedrooms which lack personality are re-created by a fourth decorator, Agnes Foster, who considers the essentials for making delightful chambers.

Ship models, which are coming into vogue as a diverting accessory of decoration, are described and pictured by Costen Fitz-Gibbon, a fifth decorator.



Photograph by Beals

A GARDEN OF PERPETUAL INTERESTS

Visualize this garden as it was in the beginning—a sweep of field down from the road. One can see such a dozen times on a country tramp. Then came the house, the grading of the terrace and the retaining wall of field stone with the steps leading down to the lower garden. In a hollow behind a row of sentinel arborvitae was sunk a pool, faced with flat stones from thereabouts. It is a garden made of the things on the place. That is why it so pleasingly fits its setting. And because a little human ingenuity has cooperated with Nature, it is a garden of perpetual interests; the more one looks at it, the more one can see. It is the home of Miss Jeanne Ingersoll at Penllyn, Pennsylvania



TULIP TIME IN THE GARDEN

Two Tulip Places Where the Spring Is
Welcomed with a Kaleidoscope of Bloom

MRS. FRANCIS KING

President of the Women's National Agricultural and Horticultural Association

AS time goes on the lover and observer of gardening in its many forms cannot but notice the great appreciation of interest in spring-flowering bulbs. Among these nothing has sprung more quickly into favor under the public eye than the late tulip. One may consider it as firmly settled in American gardening affections for many years to come. And when ultimately the grower of these beautiful subjects shall have tried all the varieties in our own dealers' lists, all that he may have found in foreign ones—if he then sighs for more tulip worlds to conquer, think of the further joys that shall be his as he realizes that from that point on he is a collector!

He finds himself in the happy valley of a general knowledge of the tulip kingdom. He has now and only now qualified as one who may climb the pleasant slopes which lead to the knowledge of hybridizing, so that of the rarer varieties of tulip such as the 'Old English' or 'Florists'. Membership in one or two of the small societies of enthusiasts in special tulips should now be open to him, and one of the lower summits of tulip satisfaction is attained.

TULIP ATTRACTIONS

Among the many attributes which endear this bulb to the gardener is its adaptability for use in small lots or gardens. Brilliant effects can be had in spaces almost absurdly small if spring flowers are used. How these minute squares of color catch and delight the eye in spring! And this is not only because gay color is welcome then.

When a small and simple garden is successful—one

in which its owner has had to consider the exchequer—there is always for the intelligent to admire the added matter of ingenuity in spending. The able use of money bears witness to a high quality of mind; and in a garden cherished by its possessor reflections of the mind of that possessor are quickly seen. To apply the idea to the larger and more notable garden, it is also the judicious outlay of money which will or will not be apparent. The memory of every lover of gardening will serve him truly if he recalls on occasion the great, bleak, barren

gardens of his visits, gardens on which fortunes have been spent and from which he could only turn sadly away. And it is also true that with some fine exceptions the public gardens of our country are open to a like criticism by the fair-minded.

ON A PENNSYLVANIA HILLSIDE

There is in Pennsylvania not far from its great eastern city, in a country-side of gentle beauty so like the Sussex Downs that one often fancies himself in England, one of these charming smaller gardens on a hillside. A constant and changing beauty in flowers marks it, but in May, with all the freshness of the spring about, it is a flashing jewel with its tulips and abundance of other effective low-growing spring flowers.

On a day in mid-May we descend from a brick paved terrace shadowed by a great pine, to a gentle slope of turf toward this little garden, enclosed by a 4' hedge of clipped privet. On the right, still below the sloping ground, an old stone spring-house is seen, hung with clouds of lavender wistaria. White lilacs in full beauty flank the garden gate—a picket gate set in a white archway which supports a mass of rambler rose foliage at its freshest and best.

Through the green and white entrance we pass into a dazzling garden on two levels, turf-walked, privet-hedged, cedar-accented, framing a most delicate and unstudied effect of spring color in flowers. The gateway is halfway up the slope of the lower or perennial garden, and as we turn to the right we see, below the retaining



Photograph by Beals

Iris flanks the wall fountain whose stream falls into a basin made from half of an ancient millstone. Simplicity is the keynote here—simplicity coupled with perfect taste and judgment



Under the maple tree below the retaining wall are benches and tables for tea, close to the wall fountain

wall which serves as a boundary for the lower end, benches and table for the al fresco tea set beneath the shade of the great maple tree.

Here are eight beds of tulips beautifully planted by those whose color sense is sure, a vision of loveliness about the tenth of each May. Tones of clear lavender, rich violet and paler and darker rose form the scheme. The effects thus created by the use of Darwin, Cottage and Breeder tulips and larger or smaller groupings of *Phlox divaricata* are those to cause an artist to rejoice, so perfect are they.

Below budding peonies, and as a foreground for iris leaves, is a drift of the delicious phlox we now begin to know so well, its lavender charmingly enhanced by loose groups of the tulip *Bleu Celeste*, of a medium violet hue, beyond it. To the left the soft, cool pink of tulip *Flamingo* shows itself in perhaps not more than five tall flowers—a suggestion to use a small number of these glorious blooms and thus rid some of us of the mistaken feeling that in numbers of tulips there is strength.

Farther on in the sunlit garden stands *Flamingo* again, with *Dream* in its pale lavender dress beyond; then green spaces of young leaves of delphiniums, with tulip *Lantern's* silvery lilac next and tulip *Clara Butt* beyond. The mounds of young greens in varying tones among all these tulips of

The cross-axis view brings out the accenting value of the cedars, central fountain, and the ornamental jar beyond



Within the white gateway with its rambler cover arch lies the garden, the walked and bright white flowers



light, clear colors furnish a wonderful setting for the glories of the flowers themselves. Whether from a distance or close at hand, the composition is perfect.

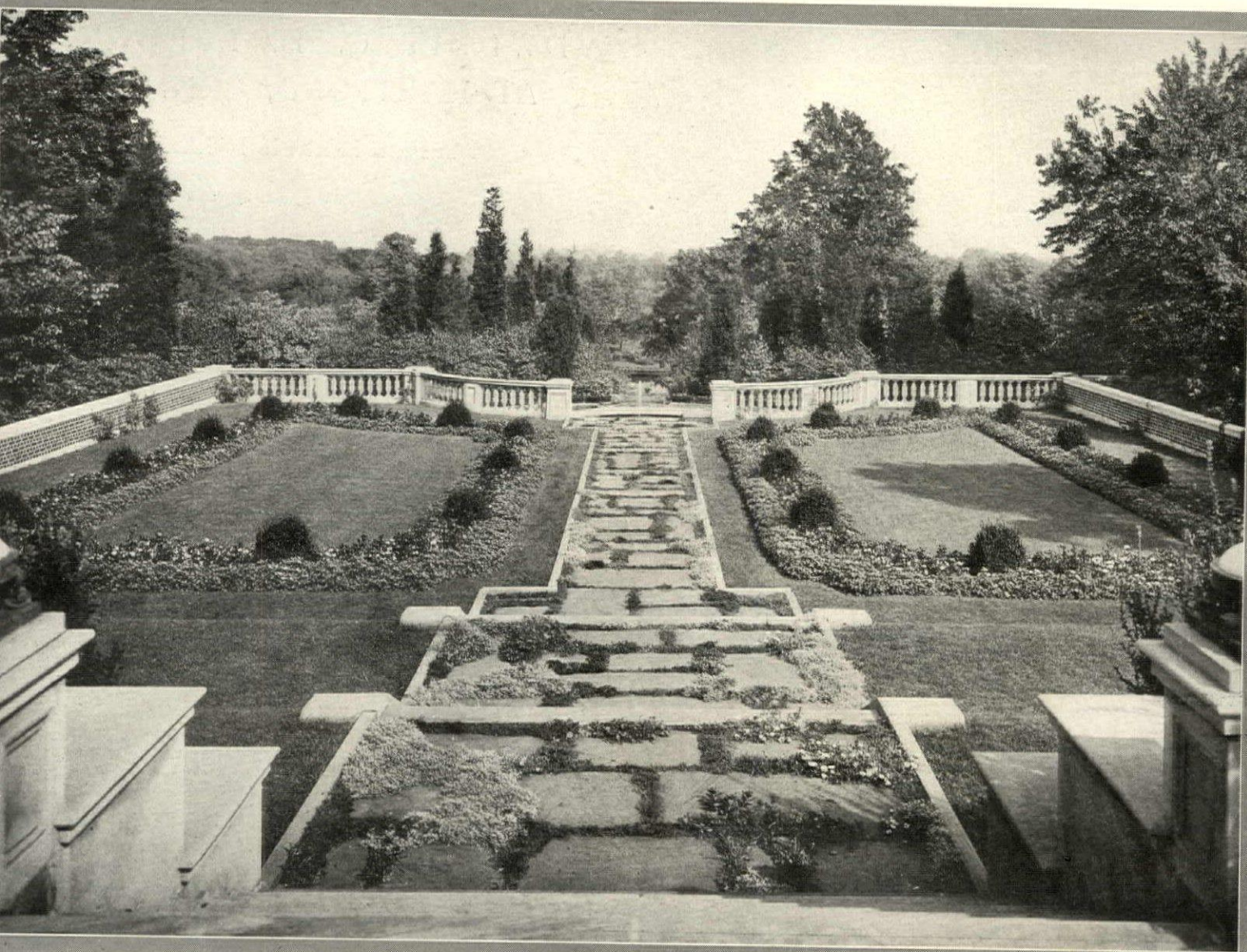
The play of light and shade on such a garden is in itself memorable. *Phlox divaricata* in a background of shadow with tulip *Bleu Celeste* in sun in the foreground form a rich spring picture. Also the semi-careless arrangement of flowers with regard to variety in height and color strikes one at every turn as being remarkably successful. An order of placing uncommonly good in this—tulips *Bleu Celeste*, *Flamingo*, *Dream*, *Lantern* (syn. *Nizza*), *Clara Butt* with *Phlox divaricata* interwoven, and touches of the little grey leaved flax (*Linum perenne*) accidental in effect. Foliage of perennial phlox and the incised leaves of delphiniums form the green background for these delightful flowers.

A touch of running water adds much to garden picture. It is here in a very simple wall fountain where the stream falls into shallow basin made by half of an ancient millstone, flanked by a planting of *Iris*

Kaempferi. This fountain is really below and outside of the garden and near the seats under the maple but fountain, jar, pot and sun-dial—this last is placed in the rose garden—all are upon the same axis.

Nora Ware, a very small lavender tulip is used in the bed here; *Dream* stands back of it, flanked by the foliage of peonies and lupine, with tulip *Le Reve*, beloved by all who know it, in the

(Continued on page 64)



graph by Wurts Bros.

The garden walk that lies exposed to the full glare of the sun, without the softening effect of changing lights and shadows, most needs the relief of crannied flowers. Sometimes, as here, a pleasant mingling of formality and naturalness can be achieved. It is on the estate of L. H. Lapham, Esq., at New Canaan, Connecticut

THE FLOWER IN THE CRANNIED WALK

A Pathway Development Wherein the Scorned Weed that Grew
Between the Stones Has Yielded to Flowers of Worth and Beauty

ROBERT S. LEMMON

MORE years ago than the chronicles of any but our oldest families can recall, a tiny plant clung to the soil between the bricks in a garden pathway of Nieuw Amsterdam.

How it came there no one knew. A stray seed, perhaps, had blown in from the road—or caught on one of the *hausvrouw's* wooden shoes as she clumped home after milking in the pasture meadow. In time the plant flourished, and because it was so small and grew in so hidden a corner of the otherwise immaculate path, it escaped for six whole weeks the watch-eye of the good housewife. Low and creeping and tenacious of root, heedless of wind and drought, it spread its soft mat of leaves and dull blue flowerets between the bricks, a pleasant contrast to the unchanging red.

It could not always go undetected, of course. In that spotless household all must be perfectly ordained, without doors as in a temple. On a day there came a pause on

the way to the well curb, a gasp of shocked surprise, a hurried pounce, and the small offender of neatness was no more. From that day to this, the flower in the crannied walk has been banned.

THE USE OF PATHWAY PLANTS

Why? Well, I suppose the reason lies partly in the fact that theoretically walks are made merely to walk on, to lead to flowers rather than to grow flowers themselves. Then, too, the plants which generally find roothold in the crevices of bricks or flagging belong to that despised company generically known as weeds, and consequently are the sworn enemies of all good gardeners and flower lovers.

But consider. Is not all flower growing based on an appeal to our artistic sense, a stimulation of the imagination through our appreciation of beauty? And does not delicate contrast, a slight tinge of the unusual, perhaps, enhance the power of this appeal? The real flower in the walk, the well

chosen and planted blossom that is no "weed," may add a touch that is no less desirable because seldom given.

Ideally, the pathway garden is a rare blending of flower color and form, a veritable landscaping achievement built upon careful thought and trial. Color harmony, contrast, succession of bloom, permanency—each deserves its share of attention, that a unified whole may result. Added to these considerations, or perhaps preceding them, is the fact that the walk itself must not cease to be a walk. Nothing within its borders should grow so tall as to be an inconvenience; nothing may spread so broad a carpet that it must perforce be trodden on. A mere meshwork of leaf and flower outlining some of the bricks or all of the larger stones is enough for the central part, with a few thicker masses at the less-used sides.

The walk that lies in the full glare of the sun is the one which most needs this relief of crannied plants. Here are no softening

(Continued on page 72)

THE RESIDENCE OF DWIGHT G. HOLBROOK, ESQ. AT HARTFORD, CONNECTICUT

RUSSELL FRANCIS BARKER, *Architect*

Photographs by Tebbs

Both in its architectural background and its furnishings, the living-room reflects the character of the exterior of the house. The lines in both are simple and there are large, restful spaces in the room. Windows and doors are deep set, with scarcely any wood trim. At one end is a semi-circular stone fireplace and above it, as foil to the ruggedness below, a panel painted in pastel shades. At one end the ceiling breaks and midway hangs an oriel window opening from the guest chamber. How that window quickens the imagination! Place a candle there at night, and its radiance is as soft and mellow as the light of the room. From that gold bar can lean another blessed Damosel with lilies in her hand and the stars in her hair seven and—

The style of the house was suggested by the ancient manor houses of Normandy. The detail and grouping of features as expressed in the windows and gables is of the Tudor Period. This intermingling of styles is not uncommon in southern England where designers of that country crossed the Channel for the ensemble of their houses and enriched the almost unbroken roof lines and broad wall surfaces with charming Gothic detail. The view below, which is the rear, shows how advantage was taken of the contour of the land. The garage is located on the first level with a wide turn-around and drying yard before it



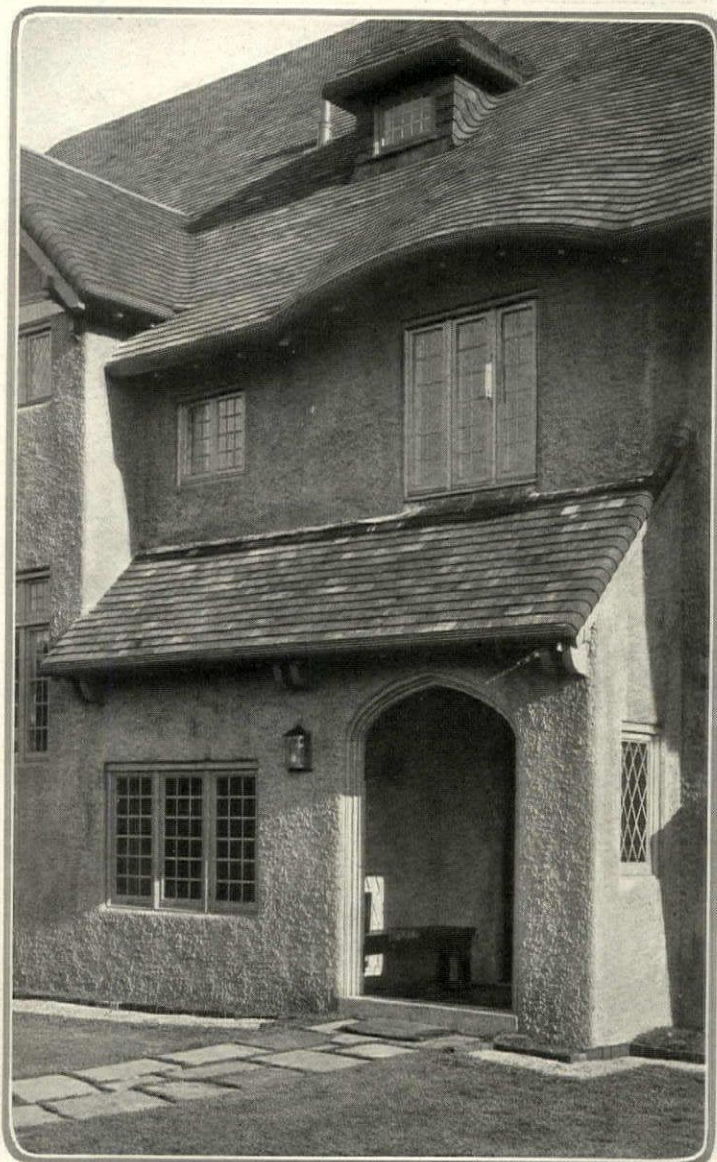


though the materials of construction offer no unusual features, distinction given by the method of handling them. The exterior walls are finished in dry stucco and the roof shingling is carried out in a manner to simulate the rounded and softened lines of ancient thatch. The massing of the house, the grouping of the windows and the relation of the house to the land are reminiscent of the English work of Bailie Scott

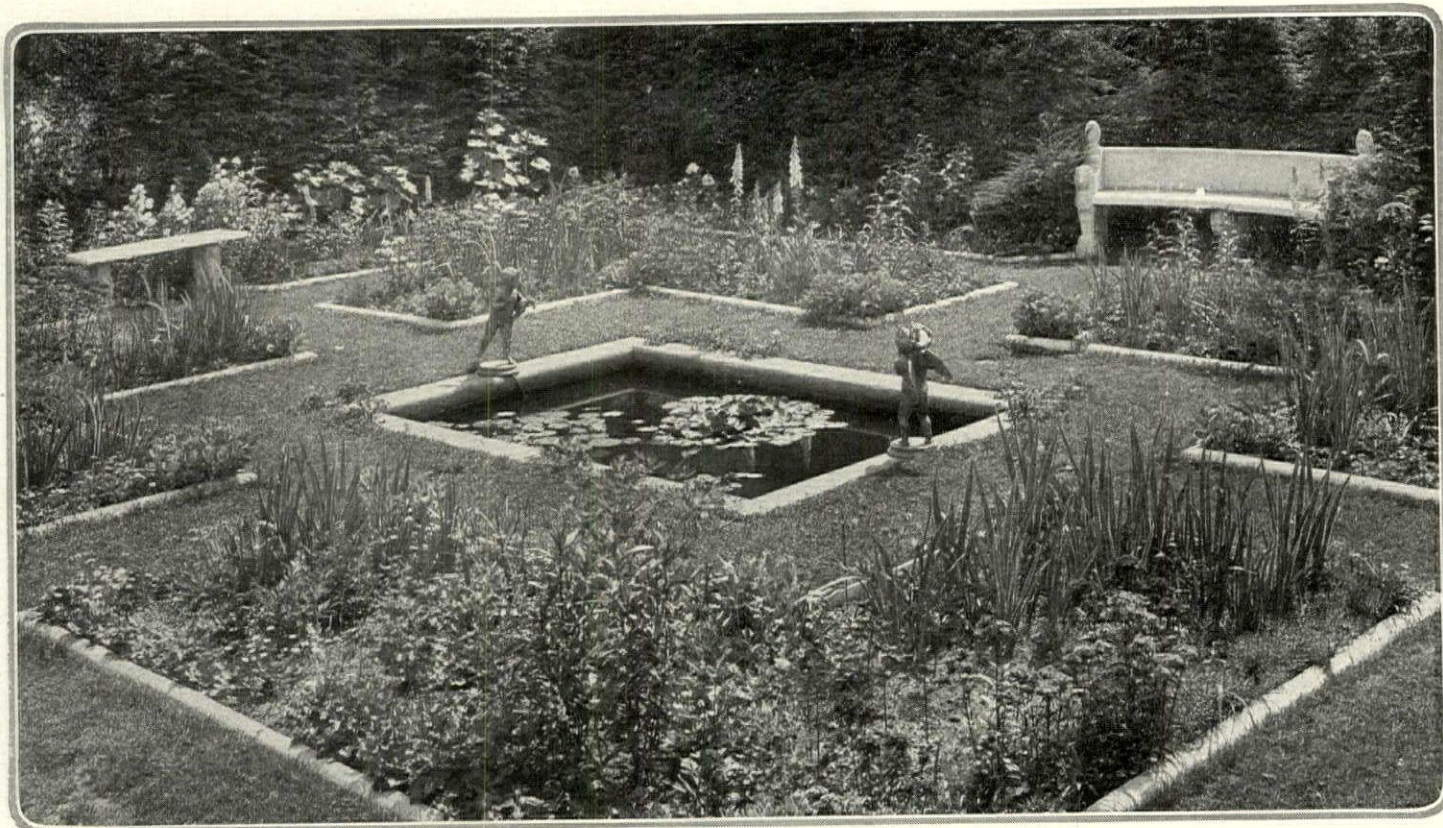


Throughout the house the woodwork is rough hewn, hand-adzed oak timber. The doors were made in the house. They are batten, held together with iron bolts. The strap hinges and latches were hammered out by a country blacksmith. Through this door one passes to the guest chamber—the room with the blessed Damosel window shown opposite

The wide overhanging eaves, shingled to simulate thatch, cast deep shadows over the rough plastered walls. Leaded casement windows have been used throughout. The two combine to establish the character of the house, which is crystalized in this entrance porch deep in shadows beneath the Tudor arch



PLANTING A PINK GARDEN — *Elizabeth Leonard Stran*



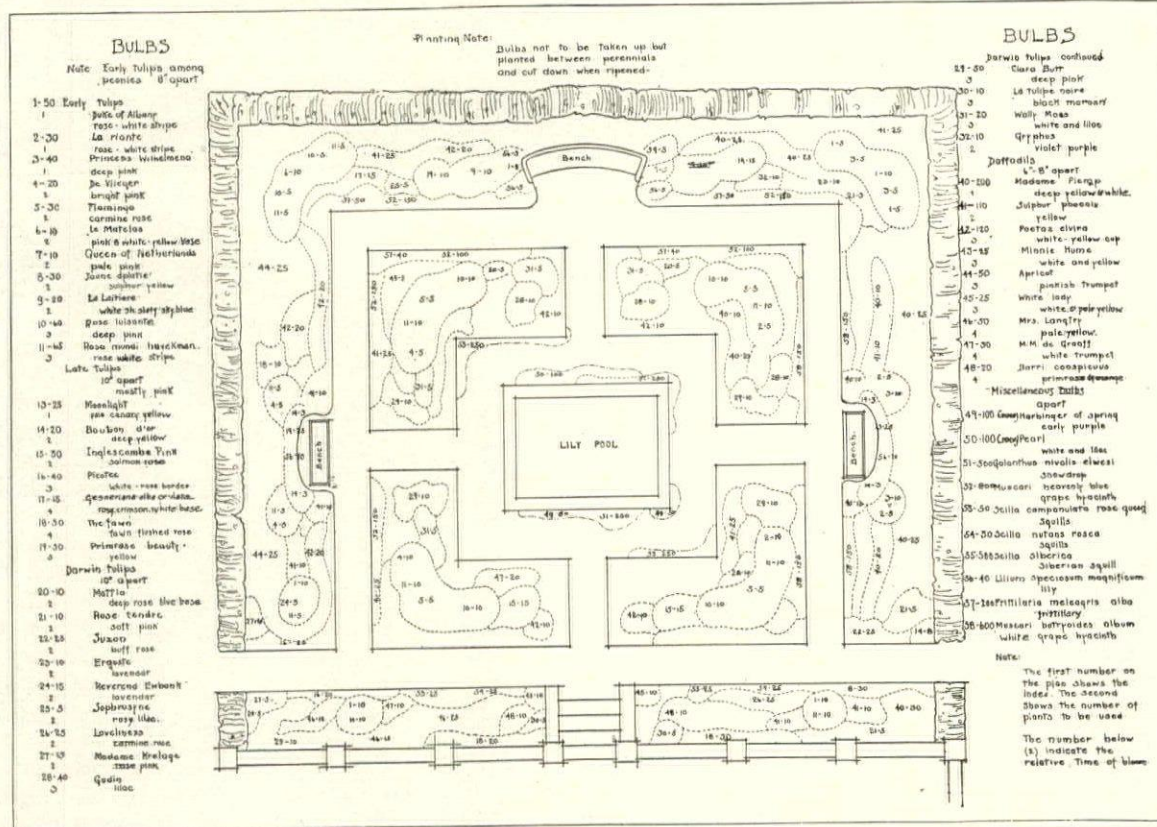
The garden is a rectangle, 30'x40', enclosed by a hemlock hedge that forms a background for the whole

THE opportunity to create a pink garden gave promise of bringing to realization a long cherished dream. When it came I approached my task with a thrilling undercurrent of joy, drew out my friendly notebooks and metaphorically turned loose my imagination.

In spite of a certain fund of knowledge and the most painstaking care in

working out special combinations, the study proved more exacting than I had anticipated and the first season's results, although altogether encouraging, were far from perfect. Tints that blended perfectly when viewed through the mist of memory, in actuality conflicted harshly; pink that when alone showed no cast of blue, when placed beside one of a slightly warmer tint proved impossible of harmonious use.

The predominating tone of the first season's experimentation was a soft, warm pink. But as this did not furnish sufficient variety a deeper accent of old rose, palest yellow and clear light blue was introduced for contrast. Strong colors of great dominance were used sparingly.



To the left of the plan of the garden above showing how the beds were arranged. The planting flanks it

on the s
In my tra
during the s
mer I ma
careful notes
future comb
tions which w
planted at t
proper ti
Even then i
impossible
forecast res
for certain b
nials like C
terbury bells
s n a p drag
which mus
planted at
each year, c
not be dependen
upon to co
true to co
from seed, a
offending sha

The garden is a rectangle 30' x 40', below the balustraded grass terrace and posing white portico of a large, formal, white house. The whole is shut in by a magnificent hemlock hedge which softens the harshness of the marble benches, the rectangular pool and white copings. When first I saw this little garden it was filled with a formal planting of pink begonias—pink, to be sure, but uninteresting.

Some people look with disfavor upon softening irregularity of herbaceous planting. "I like a plain garden best," cried a client of mine, viewing with a frown the blending of varieties and colors which I designated a "messy" garden.

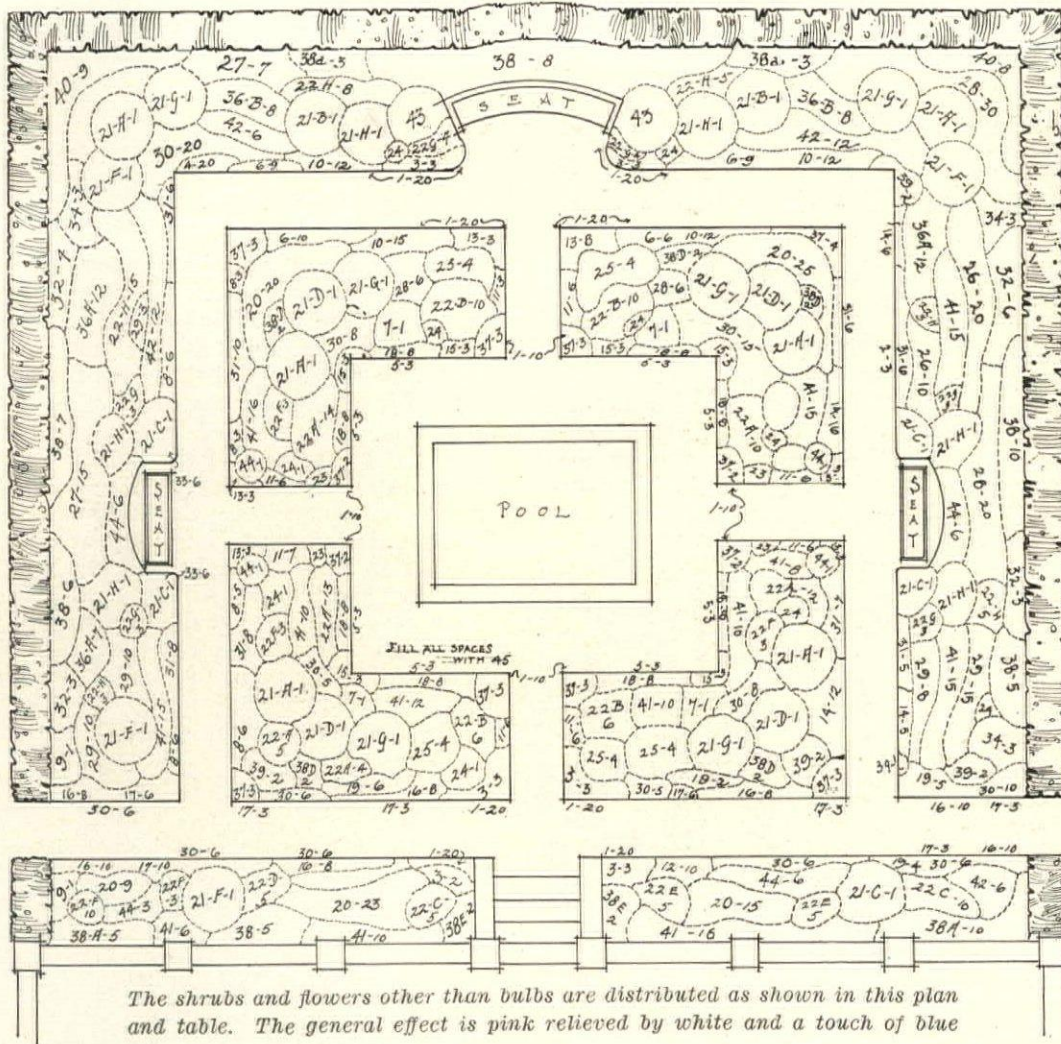
It is, however, more than a mere matter of opinion whether we shall have the one or the other. Formal bedding has its uses, but not for the purpose of garden or park where we are interested only in masses rather than in individual flowers? The intimate little garden in which we step from the living-room porch should be bedecked with a variety of flowers; masses of gorgeous coloring with subordinate but strong accents and such interesting details; old-fashioned favorites; shy little observant blossoms, dainty and sweet. With this also I approached my problem.

With the exception of a period from June fifteenth to September fifteenth when the family were away, the garden was expected to offer a continuous succession of bloom; so I shall mention the qualifications of the different flowers used, both as regards their contribution to the mass effect and as items of individual interest, supplementing the actual flowers used with a list which would successfully augment the period of comparative fullness during the summer.

THE PROCESSION OF BLOOM

As there seemed to be no extremely early pink flowers of sufficient size to be striking, a combination of deep blue scillas and purple crocus was chosen for the first color mass, closely planted to the grass around the pool. But the pink hyacinths followed them so closely and combined so seamlessly with the English daisies and forget-me-nots, that I have planted some for next year. If properly placed, the effect is a revelation to those who dislike the somewhat clumsy blossoms of the hyacinths.

Next in the procession appeared quantities of soft yellow, phlox, and cream narcissus; early tulips, white, pale yellow and creamy pink, shading to a deep rose. A note of deep red-purple introduced by Wouderman tulips proved too harsh and accordingly had to be removed, and though so beautiful at first, after the later bulbs had made their appearance, the blue of the scillas was a little overpowering and was therefore



The shrubs and flowers other than bulbs are distributed as shown in this plan and table. The general effect is pink relieved by white and a touch of blue

SPRING AND EARLY SUMMER

1. *Bellis perennis*, English daisy, the familiar pink and white.
2. *Myosotis*, pink forget-me-not, the early variety.
3. *Saxifraga cordifolia*, heart leaved saxifrage, pink.
4. *Sanguinaria Canadensis*, bloodroot, snowy white, very early.
5. *Arabis alpina*, rock cress, white.
6. *Mertensia Virginica*, Virginia cowslip, beautiful pale blue with pink buds.
7. *Dicentra spectabilis*, tall, early, bleeding-heart.
8. *Dicentra eximia*, dwarf bleeding-heart.
9. *Azalea Vaseyi*, pale pink azalea.
10. *Viola Hazelmere*, pale dull pink tufted pansy.
11. *Primula denticulata*, very early lavender pink or white primrose.
12. *Hepatica triloba*, liver leaf, pink, white or blue.
13. *Daphne cneorum*, garland flower, pink, evergreen, sweet-scented.
14. *Phlox subulata*, Bride, creeping phlox, white with pink eye.
15. *Alyssum saxatile*, Silver Queen, a very pale yellow variety.
16. *Phlox di varicata*, wild Sweet William, lilac blue.
17. *Tiarella cordifolia*, foam flower, soft feathery white.
18. *Iris pumila*, dwarf iris, blue and deep purple varieties.
19. *Adiantum pedatum*, maidenhair fern.
20. *Aquilegia*, columbines, rose and cream hybrids.
21. Peonies, early to medium varieties only:
 - a. *Umbellata rosea*, double, outer petals, rose, center creamy.
 - b. Madame Emile Galee, rose type, shell pink.
 - c. Madame Calot, rose type, hydrangea pink.
 - d. Alexander Dumas, double, rose color.
 - e. The Bride, single, snowy white, golden stamens.
 - f. Rosy Dawn, single, snow white tinged blush.
 - g. *Grandiflora magnifica*, beautiful double creamy pink.
 - h. Areos, single, clear shell pink.
22. Iris varieties:
 - a. Queen of May, pinkish lavender, the nearest to a real pink iris.
 - b. Madame Paquette, rosy claret, tinged deeper.
 - c. Khedive, soft lavender with an orange beard.
 - d. Gypsy Queen, standards coppery yellow, falls dark purple violet.
 - e. Sappho, standards white frilled lilac, falls white with lilac base.
 - f. *Flavescens*, palest straw color.
 - g. Aurea, clear yellow.
 - h. *Pallida Dalmatica*, clear bluish lavender.
23. *Potentilla fruticosa*, small shrub with flower like a tiny single yellow rose.
24. *Galium Mollugo*, soft misty white, needs tying up.
25. *Astilbe Japonica*, var. Queen Alexandra, soft pale pink.
26. *Campanula medium*, Canterbury bells, pale pink only.
27. *Lupinus polyphyllus rosea*, pink lupine.
28. *Digitalis*, foxglove, pale pink or white only.
29. *Papaver orientale*, oriental poppies, named pink varieties.
30. *Heuchera sanguinea*, coral bells.
31. *Dianthus barbatus*, Sweet William, pale pink and white only.
32. *Althea rosea*, hollyhocks, clear pink or warm yellow buff.
33. *Tunica saxifraga*, low plant with tiny pink flowers.
34. *Delphinium Belladonna*, pale pink larkspur.
35. *Lilium speciosum roseum*, pink Japanese lily.
36. *Phlox paniculata*:
 - a. Peach Blow, pale pink.
 - b. Pantheon, satiny rose, late.
37. *Sedum spectabile*, showy stonecrop, dull pink.
38. Hardy Asters:
 - a. Perry's Pink.
 - b. Thomas Ware.
 - c. Thirza.
 - d. Elsie Perry.
 - e. Climax.
39. *Statice latifolia*, sea lavender, cloudy mass of blossoms.
40. *Boltonia latifolia nana*, dwarf boltonia, lavender pink.
41. *Anemone Japonica*, Japanese anemone, single and double, rose pink, and white named varieties.
42. Hardy chrysanthemums:
 - a. Hijos, large primrose pink, very early.
 - b. Alma, soft pink.
 - c. Dindulu, large clear pink.
 - d. King Philip, large rose pink.
43. Hemlocks.
44. *Dicksonia punctiloba*, hay-scented fern.
45. *Antirrhinum*, snapdragons, rose and silvery pink.

partially eliminated.

Coincident with the foregoing bulbs were various charming details: a dash of snowy white bloodroot; shy, pink and lavender hepaticas; early pink saxifrage (with its heart-shaped leaves of bronze); a tiny viola of an exquisite ashes-of-rose color; and *Primula denticulata*, rearing on erect stems its ball of lavender-pink or white blossoms. Tucked in every vacant spot were English daisies and blue and pink forget-me-nots. The glaucous green foliage of the tall bleeding heart with its arching sprays of pink relieved the barrenness of early spring. Its daintier cousin, *Dicentra eximia*, formed a border whose finely cut foliage and pink flowers were fresh until late in September. Also, grey-

green foliage harmonized so cunningly with the soft pink that I have planted *Cerastium tomentosum*, *Veronica incana*, arabis and grass pinks for next year.

The next mass effects consisted of Cottage and Darwin tulips in tones of clear pink, old rose, blush, carmine, primrose yellow and lavender. For a single strong accent there was the maroon black of La Tulipe Noire. The "Glare of the Garden" and Bouton d'Or were too intense and had perforce to be expurgated. In general only one or two blooms of a deeper note are required for accents.

Accompanying these tulips were hosts of other spring flowers: snowy arabis, the miniature *Iris pumila* of sky blue and deep purple, pale yellow tufts of *Alyssum saxatile* var. Silver Queen, and the tiny pink buds and nodding blue bells of Virginia cowslip. Above a mat of palest pink *Phlox subulata* var. Bride, the white porcelain bells of white grape hyacinths nodded, while close by the blue ones combined charmingly with white checkered fritillarias. In still another spot *Scilla nutans rosea* proved to be of exactly the shade of pink desired.

AFTER THE TULIPS

Closely following the Darwin tulips, and in fact almost coincident with them, was a pastel effect composed of German iris, (Continued on page 76)



TWO COMMANDMENTS



THE man who said these things was old enough to have his town philosophy of life. He was a lawyer of the old school—read his Blackstone as regularly as a preacher reads his Bible—fought in court and out of court, and had come to know the gold of life when he saw it, and to choose the gold from the dross.

He said that, for his purposes, the Decalogue was overcrowded. After sixty-five years of active life he had reduced the ten commandments to two. These two, he held, covered the murder and the stealing and the slandering and all the other prohibitions of the old code. His are affirmative commandments, and they are very short:

"Be happy."

"Make others happy."

AT first these sounded to me like a cheap edition of the wishy-washy Pollyanna philosophy that has lately so corrupted the thinking of a lot of apparently sane folks. But the more I mulled them over in my mind, the more I saw the old gentleman was right. It is the bounden duty of men and women to keep as happy as they can, and to make others feel the same sort of joy. The man with the grouch is no longer the hero of our times. The man who refuses to share and help and lend a hand is not looked on as the mighty success he once was considered. The "cagey" Yankee who once on a day symbolized American business is being supplanted as a type by the man whose labor is directed to the benefit and service of his fellows.

Conceive what this means. The magnate who builds a railroad, the publisher who issues a magazine, the merchant who conducts a store can no longer run his business for his sole profit and pleasure. If it is not founded on service it is doomed to failure. Now service simply means helping others, and helping others is only another term for making others happy.

But have I totally disregarded the old lawyer's first commandment? Scarcely. For the man does not exist who can make others happy without making himself happy.

All of which has a very important bearing on *The Spring Gardening Guide* which is the title of this issue of *HOUSE & GARDEN*.

HERE we are laying plans for the garden of this year. We have sketched in the contour of the land and located the beds. We know what annuals will go in when the tulips are blown. Like as not, by this time we have ordered the seeds and the shrubs.

There will come hours in the warm spring air when we turn the soil and enrich it, when we plant the seed and cultivate the row. Hot summer days will come when we will breathe the perfume of myriad flowers and the sensuous richness of the seared earth. Dusks will be ours—quiet mauve dusks when we will sit about and watch the countryside darken into night and the stars come out and the fireflies hang their lanterns on stalk and branch. Then the crisp days of autumn when bush and tree flame by the dooryard and Nature is consumed like a mighty hero on a pyre of her own making.

A pleasant prospect, certainly. And if you labor to make such a garden the joy will be yours as a just return for the toil you have given. But—and this is the second commandment again—I am wondering if the man exists who

can possibly make and keep a garden all to himself alone.

A garden is a public place. Try to keep it beautiful for yourself alone and see what happens. The neighbor hurrying to catch his train of mornings will stop to look at the iris purpling by the doorstep, the motorist will throw on his brakes and halt half way up the hill just to look at that mass of Oriental poppies against the wall. People will pass, and they will be happier for the passing.

Nature is on the side of the public. Build your wall never so high, but her winds will carry the seeds of that choice variety reserved for yourself to a dozen different dooryards where they will bloom next season to defy your selfishness. Plant your hedgerow never so thick but a hollyhock will nod a friendly greeting over the top and the elms will sweep their cooling branches. Let the gate never so tight but the breezes will waft the odor of rose and hyacinth and mignonette to every passerby. You can no more make a garden for yourself than a man can conduct a business for himself. Nature will not let you do it. "The army of the alterable law" will win the victory every time.

A GARDEN is a public service. It is your contribution to the community. And a community is good to live in according to the measure in which each citizen does his share toward betterment.

It is not enough that law and order be preserved. Such ideas are but one stage removed from the savage. Only the policeman with his truncheon stands between us and the cave man, if law and order are all we desire. No, it is the mark of civilization that men make gardens beautiful that the town may be beautiful, that the joy of the tulips and the columbine which they plant and care for may be shared with those who pass by.

It is logical, then, that when town fathers assemble to discuss the betterment of the community, they give serious attention to better gardens. To repeat what I said last year, better gardens mean better towns and better towns mean better men and women.

In what manner these things come to pass I cannot say. Somewhere in his essays Emerson uses the figure of a pebble that a man throws into the sea. The ripples spread out and out—diminishing, but still going until the faintest rhythm of that circle touches the shore of another land. What land and what he does not say. Nothing comes to an end. The circle touches something somewhere, sometime.

That is about the way with the flowers you will plant this spring. We will gain joy from them, you can say, nor when nor how. But this you can be sure of—that they will bring joy and that happiness will be yours according to the measure with which you share it. This, after all, is the substance and substance of gardening.

In his own fashion old Omar speaks these very truths. "I sometimes think. . . ."

That every Hyacinth the Garden we Dropt in her lap from some once loved Head.

And this reviving Herb whose tenders Green

Fledges the River-Lip on which lean—

Ah, lean upon it lightly! for who knows From what once lovely Lip it springs unseen!"



THE DAFFODILS

Gray is the city as a gray-beard Jew.
Steel, paper, shoes, a thousand sordid things,
Crowd the dull windows, fill the humming hives,
Busy the piteous-eager heart of men.

Yet on a day when light the wafting wind
Teased the grim giant with a hint of spring,
There between buildings broke the sunlight through,
And lo! an arched dark window was ablaze
With the gold splendor of the daffodils!

Who said the day of miracles was done?
I saw with my two eyes, and felt my heart
Go fluting "April!" all the wintry day.
And I shall never pass that way again
Without remembrance of the swift surprise—
Here in the sun the jonquils' spendthrift gold;
At the street's end the blue, resounding sea!

—Sara Hamilton Birchall.



Photograph by Gillies

WROUGHT IRON AND ROUGH CAST PLASTER

Between wrought iron and rough cast plaster is an unique harmony. Both have vigor of line and finish, both have the naïve crudity that gives all handwork its charm. Hence they combine well, as here in the gallery of the residence of W. W. Lawrence, Esq., at Watch Hill, Rhode Island. The architect was Mott B. Schmidt

ANTIQUE DESKS AND THEIR APPRECIATION

GARDNER TEALL

So finished have modern cabinet makers become that no antique piece exists but they can make a faithful reproduction of it. And the collection of faithful reproductions is a hobby all by itself. Here are shown a few of the historic types after which copies can be made. With two exceptions the photographs are by courtesy of the Metropolitan Museum.



Dating from some time between 1650 and 1700 is an American desk box on a frame of maple and oak. It is practically a table desk with drawers

THE appeal of old furniture which has the merit of form, design and workmanship of high order is one that is not the reflection of a passing fad or fancy; it has come to be one of attachment and genuine sincerity.

If it took the greater part of the 19th Century to teach us the futility of fixing our affections on exaggerated novelties, such as those which dimmed the reign of Queen Victoria and boomed the Bunthornes of the eighties, the 20th finds us

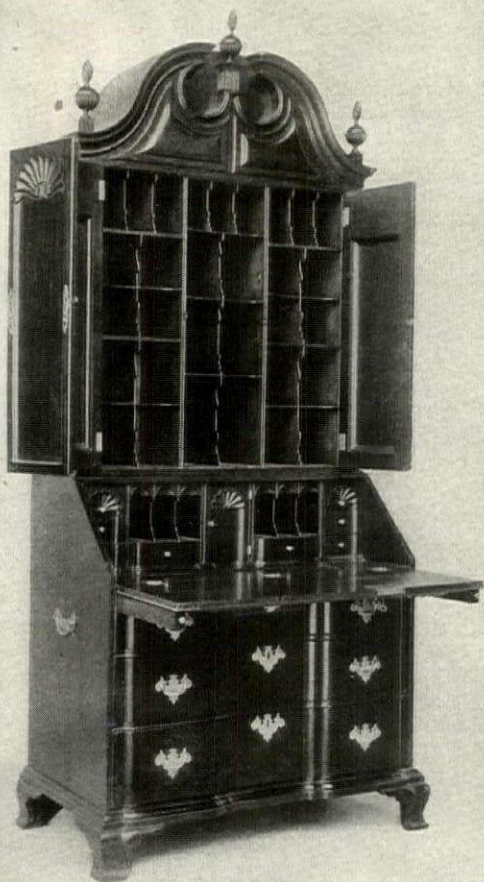


Like the table desk opposite, this shows same tendencies in construction, being a table with a drawer, substantial in line of construction. The wood is oak

discriminatingly chastened. We are turning out of our houses, those of us who can, the pieces of furniture that ought not to have been made, putting into their places old-time things of beauty, or where it is not possible for us to acquire valuable antique pieces, the high-grade reproductions of old furniture that may grace the market and show no abatement in popular esteem.

In classifying the hobbies of several thousand collectors who had stated their

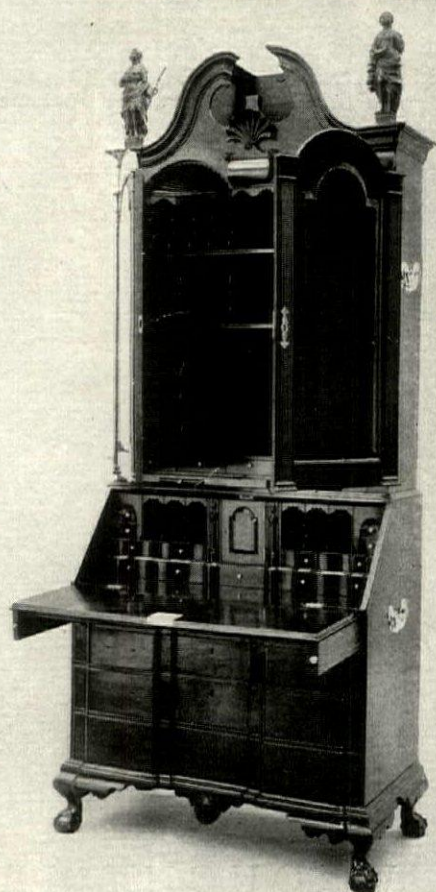
In the period of the First Empire were made desks with drop fronts. Ormolu decorations distinguish it. Note the cut-in "knee-hole"



Some time between 1750 and 1775 was first made the Rhode Island style of desk with block front, cabinet top, classical cornice and brass fittings. The wood was mahogany



Another American type is the slant-top. It dates from about 1725. The frame is pine and the general lines are simple. Legs are turned but the stretchers are plain



Of about the same period as the block front shown opposite is this with a broken pediment cornice and carved classical figures. Mahogany is the wood used throughout



Above is a tambour desk open and closed. The name is derived from the sliding doors which made this desk the ancestor of our modern roll top. The wood is mahogany with satinwood inlay. It is Heppelwhite in design, made in America in the late 18th Century



Photograph by Wallace

example of an old Queen Anne escri-
re in robin egg lacquer on walnut legs.
The interior is cream lacquer. 1760

wonders with the battered derelicts of the houses of yesterday by making the old pieces to shine forth in their glory anew; all of which lends encouragement to the collector and new zest to his traditional delight in the "hunt."

Upon first thought, a collection of desks might seem like a mastodonian assemblage; so it would be, if the collector placed them all in a row or all in a single room. But the house of today can accommodate—indeed, finds necessary—more than a single desk in its furnishings. And so the collector of old furniture has another impetus in his search, a utilitarian one. Under the term



Photograph by Wallace

A fine William and Mary escritoire was made with a simple hood top in burr walnut inlaid with seaweed marquetry

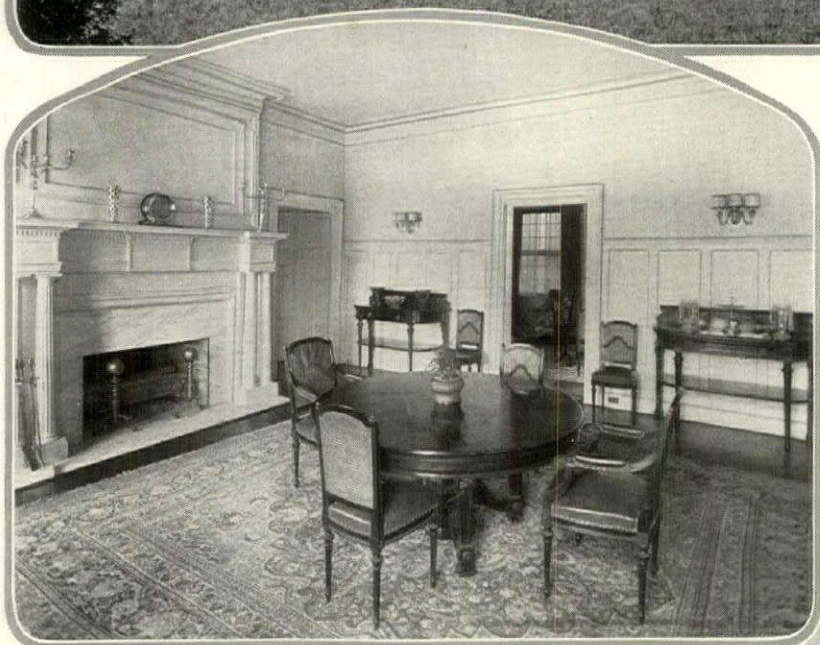


The block front style of desk was also made in Rhode Island in the 18th Century without the top section. Mahogany has been used

of desk we may include the various *écrivains*, bureau-bookcases (book-case-bureaux) and the *secrétaires*. All of these, in common with our cabinets, tall-boys and so on had their origin in the chest or coffer of the Middle Ages. To the bottom of the chest came to be added a drawer. Next, side doors instead of a top lid came into fashion, and in this manner followed the many steps that led to the development of the piece of furniture we designate, for convenience, the desk.

It is not possible to tell just when the earliest desks were made. The desk is
(Continued on page 68)

ferences, it was found that a greater number were interested in old furniture than in any one other subject. This fact is not strange, when one comes to consider the utilitarian case. Generally, the collector of old furniture starts in with the chance possession of two or three antique bits which, by inspiring interest and appreciation, lead him to wish to bring other house-furnishings into harmony with the loveliness of the old pieces. Few collectors of antique furniture, of course, are without homes of their own, or the modern substitute—the apartment. The skill of the modern restorer of old furniture accomplishes



CURLES NECK FARM

THE VIRGINIA RESIDENCE
of C. K. G. BILLINGS, Esq.
ON THE JAMES RIVER

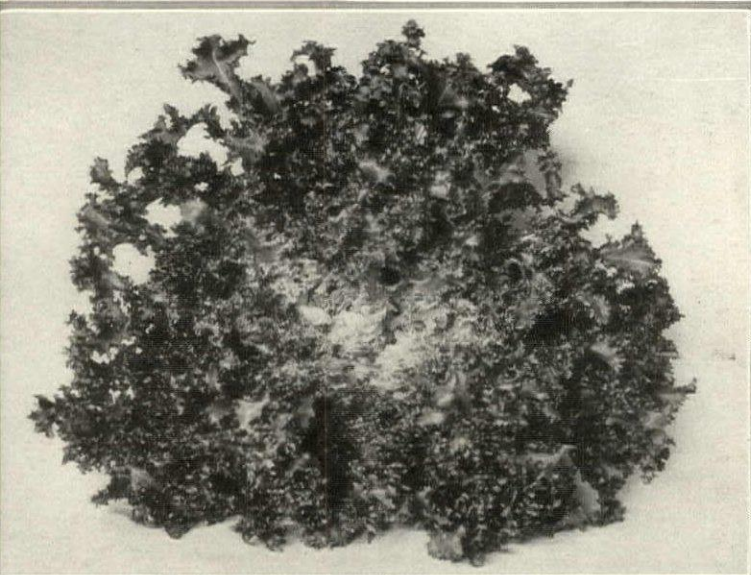
Photographs by courtesy of Joseph P. Day

The house, Southern Georgian in architecture, stands on a high bluff commanding a great sweep of the James River and fields that during the Civil War were fought over by the armies of the North and South. The wide portico that graces the front of the mansion—a property recently placed on the market—is characteristic of the region

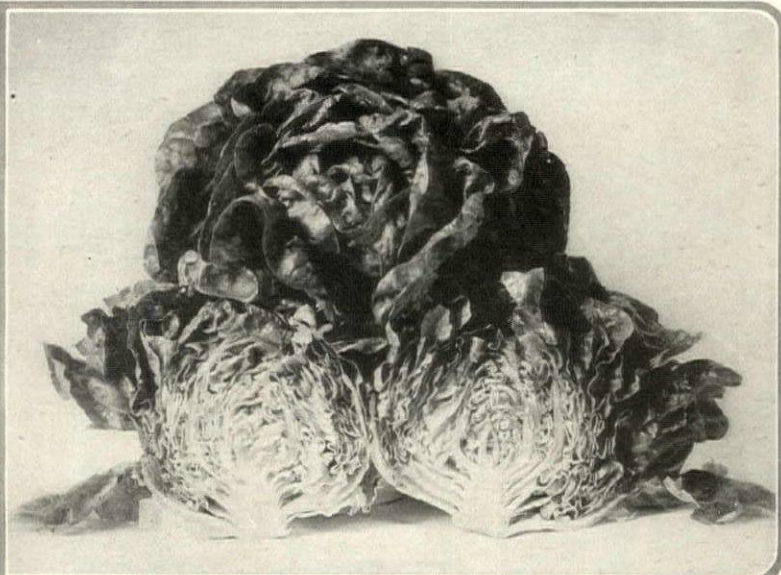
Simplicity is found in both the architectural background and the furnishings of the dining-room. A high paneled wainscot circles the room. To one side is a Colonial mantel with a simple over-mantel panel above. The furniture is such as is required for the quieter entertainment and life of a country house far remote from the city

The spirit of the rural South is found in the hospitable doorways and the comfortable furnishings that make for simple, dignified country living. The living-room shown to the right is an example of the type of furnishing that a country estate of this magnitude—it is some 5,000 acres—requires





Endive well deserves attention as a salad plant, but it should never be served alone. In combination with butterhead lettuce and French dressing it is delicious



Naumburger is one of the finest butterhead lettuces. It perfects splendid 10" heads in fifty-five days from the time seeds are sown, but it is not a good midsummer sort

F I L L I N G T H E S A L A D B O W L

As It Should Be Filled Is Simple Enough When You
Know What Plants to Grow and How to Grow Them

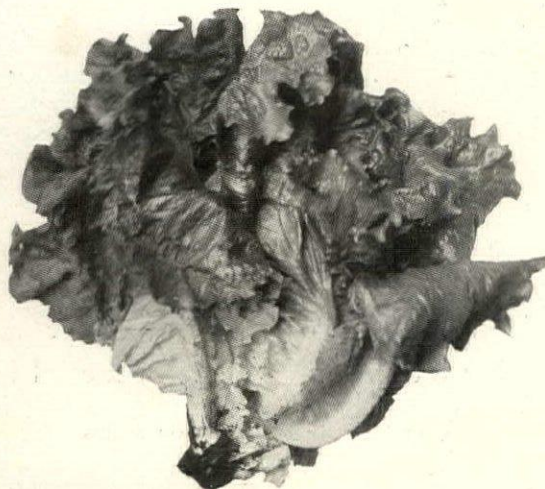
DURING being a family of salad lovers, I found myself more or less in "deep water" the year around. The more exacting one's requirements become, the more one realizes the limitations of markets. So I finally decided to take the bull by the horns, to study the subject from the ground up with the result that the salad problem has become a salad blessing in which tasty, every lettuce plays a most important part. Since lettuce forms the most popular basis of all salads, I began to study it first. A few things I have attempted proved more intricate than the correct selection of sorts which would best serve my purpose. It developed that there are four distinct types, and of these I finally selected the kinds which, to judge from the descriptions, seemed to measure up to the requirements in nearly ideal fashion.

Of course, there were some disappointments. When I tried to grow in summer the sorts recommended for spring use only, they quickly turned bitter and grew seed stalks instead of heads. Again, when I proceeded to prepare salads from heads sown during August, using the same dressing as I did for the more delicately flavored spring crops, the results were disappointing. The sum and substance of my experience inspired this discourse on salads, offered here for the benefit of those home gardeners who like them as well as we do.

LETTUCES WORTH GROWING

There are four distinct classes of lettuce, the individual members of which differ very little in general characteristics but very much in habit. Some grow very quickly, making big bunches of leaves, and then

ELEANOR R. GILLAM



Among the crispheads dependable for summer use Iceberg is a worthy leader. It matures in sixty-five days from sowing

go to seed. Others make firm heads in the spring, but "shoot" seed stalks as soon as hot weather approaches. Still others are very slow growers, but they also form the most solid heads and go to seed only after trying hard to rot inside before bursting.

The earliest of all lettuces to yield crisp, tender salads in the spring I found to be the loose-leaf sorts. After trying quite a number, I decided that Black-seeded Simpson served my purpose in as nearly ideal fashion as any. It was ready for use, with fine, big plants about 10" in diameter, in forty-five days after seeds were sown. It remained in perfect condition for two weeks—at least four days longer than any of the other extra early spring sorts. As a result, it stayed in fine condition for flavory salads just about a week longer, when my prize-winner among the butterhead lettuces—Naumburger—yielded its first fine heads.

FOR LATER USE

Naumburger, or Tenderheart, as it is called by some, perfected its attractive light green 10" heads in exactly fifty-five days from the time the seeds were sown. I have tested and tasted many lettuces during the last fifteen years, but I have never found one to surpass in flavor this splendid butterhead sort, especially when prepared for salad with the French dressing to which I shall refer later.

When later sowings of Naumburger produced seed stalks or "bolted," as the experienced gardener calls it, the crisphead lettuces saved the day. The most attractive and dependable of these proved invariably to be Iceberg. The first heads are generally ready in sixty-five
(Continued on page 94)



Prizehead at the left and Black-seeded Simpson beside it. The latter is one of the best extra early, loose-leafed sorts, and should be in every salad garden



FORTY-FIVE SECONDS FROM BROADWAY

A Cottage in a New York Flat—The Apartment
of Louis Fancher, Esq., the Illustrator

Photographs by the Johnston-Hewitt Studios

Ahaz, the Inky Ethiopian, takes you up in the iron cage to the tenth floor, deposits you in a bleak hall before a fireproof door. You ring the bell. The door opens. And you step into the jolliest little cottage this side o' Devon. Above is one end of the big studio that serves as the dining, painting, and living-room. The walls are golden grass cloth and the ceiling is golden too. The furniture, simple fumed oak and wicker, fits well into the scheme

On the top of the page opposite is the other end of the studio. A big, over-stuffed davenport in blue fills one end. Bizarre pillows are stacked on it. Above is a semi-circular mirror in a blue frame. The sconces at either side are blue touched with orange. The little table to the left has an orange tray on a blue frame. Golden orange and true blue is the pervading combination. The rug has a deep pile in a rich golden tone. The color effects are interesting and restful. The room has the advantage of large spaces



Because it had to serve a twenty-four hour purpose, the utilitarian objects were arranged as to be both compact and convenient. Between meals the sideboard dresses ranks with orange and blue candlesticks and an orange tray, and looks perfectly in place. In the hall is a built-in cabinet to hold the family jewels. Fancher's scraps of paper and tubes of paint, together with sundry overshoes, umbrellas, hats and dinner jackets, all neatly arranged and decoratively concealed

The photograph directly opposite shows the artist as carpenter and his wife as painter. (Mr. Fancher wielded the hammer and Mrs. Fancher the paint brush, she being also the designer of these decorations.) The white shelves with the Breton pottery connect up with the woodwork of the room. The curtains are blue calico with orange fringe. Two little love birds (see the blur) perch on a shelf above the shelves. If you despair of making that ghastly flat livable, here is one way of doing it—love birds and



THE TRUTH ABOUT DWARF FRUIT TREES

Real Quality in Diminutive Apples, Pears, Peaches,
Cherries and Apricots — The Necessary Culture

WILLIAM C. McCOLLOM

IF your first impulse is to ask "What does it cost?" you had better skip this article. It is directed to the person who wants quality first of all. Yes, to be sure, we all want quality, but here I am using the word in its fullest significance. And the searcher for quality first is usually one who does not study every penny to figure how many dollars' return it will yield.

Frankly, I do not consider the dwarf fruit tree a really sound commercial proposition. There may be some cases where it could be advantageously treated in a commercial way, but generally speaking it is for those who want orchids for their buttonholes, and straight Havana cigars—in fact, for people who are really looking for the highest standard of quality and are willing to pay for it.

I am not trying to frighten anyone about the cost of dwarf fruit trees, for their prices are by no means prohibitive; but where you get ten apples from the ordinary standard tree you will get but one from the dwarf. The quality will be of the best, but disregarding the many other factors that make the dwarf fruit trees so desirable, and judging only by the pound for pound return, the standard type outweighs the dwarf. On the other hand, in the proportionate quantity of fruit produced, the dwarf trees are far preferable. When you see these sturdy little fellows carrying a load of fruit that even the larger type wouldn't be ashamed of, you can't help admiring them sincerely.

Disregarding economics, there are a number of sound, logical reasons for planting the dwarfs. Of these I would place quality first, for surely there is nothing more worthy of our efforts. There is no class of trees of any description that bears fruit of as high a standard, because of the better care they get. The situation is analogous to that of a person with a good suit of clothes, and another with a cheap one—there is more involved, and so better care is taken. And be it known that among the real aristocrats of the fruit family, the dwarfs are the acknowledged blue bloods.

WHAT THEY WILL DO

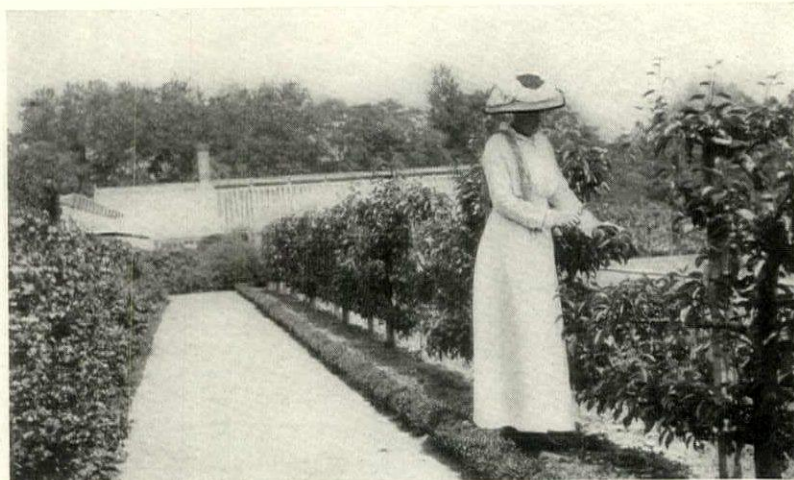
The dwarf fruit trees are particularly valuable to those who want quick results. Of course, you can't pick any fruit the day after planting, but you can get a fair crop the second season from planting, and if you get good stock which has been properly handled you will get some fruit the first season. This may sound like a fairy tale, but it is not. I planted a number when they were in full flower after having

been delayed somewhere in transit, and they carried considerable fruit the same season.

To people with very limited grounds, the dwarf brings within their grasp the possibility of having their own fruit, from their own grounds. The little fellows can be confined to a degree beyond our imagination and still continue to give results. Where possible it is advisable to give them a reasonable amount of growing space, but if necessary to reduce the growth to the small-



Tomatoes or flowering plants can be trained on the wires until such time as the trees will need the entire trellis



Part of the fun of raising dwarf fruits is training them. With a strong wire trellis as a foundation, a beautiful pleached alley can be created in a few years



Summer pruning is a great factor in producing quality. It should be done around the middle of July, or as the growth requires. The low branches assist the work

est possible allowance, they can be trained on a trellis of some sort and the space they occupy need not be much more than given a climbing rose bush.

One of the greatest assets of the dwarf tree is the ease with which it can be properly cared for. This is another reason the trees get better care, for they are under the closest scrutiny at all times and any ease or attack of insects is at once perceptible. There are no ladders to climb, spraying is easily done with a hand pump of the smallest type. With them, thinning the fruit becomes a pleasure instead of an effort. Summer pruning is also within reach. This practice is out of reason for the high headed type of tree, and if done it should be and the other cultural requirements properly attended to, fruit trees bear annually instead of following the seasonal habits of a great many of our standard trees.

Another important argument in favor of dwarfs is that because of their sturdy growth they are little affected by wind storms which often ruin quantities of regular fruit trees, causing it to fall before it is ripe. Again, the dwarfs have so much less growth to sustain that they can be used in groups without effects without killing adjoining plants by robbing the soil of every bit of fertility.

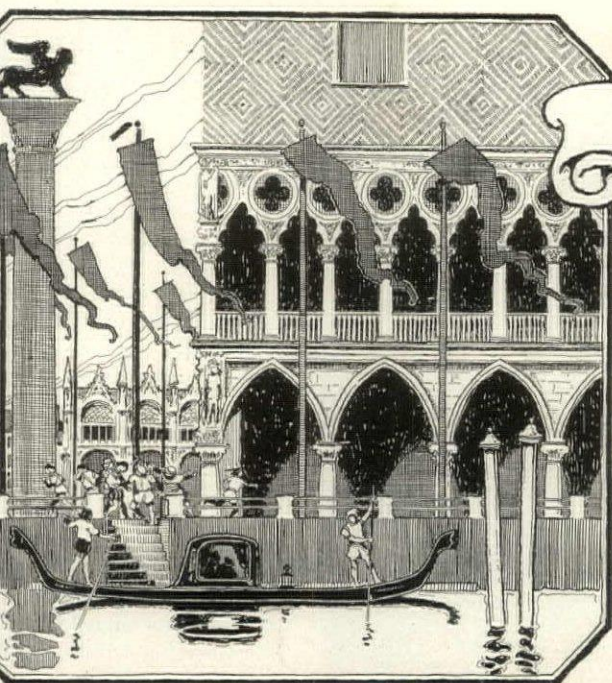
and casting a very short shadow. Now, they are possible in either the vegetable or flower garden.

WHAT THEY ARE

The dwarf fruit tree comes in a number of forms, trained types coming in many shapes, cordons of various trainings, horizontals, U-trellises, gridirons, etc. They, of course, require a trellis of some description, or they can be trained against a wall, the side of a building, or some surface. These trees are extremely ornamental, and are used in garden effects of many kinds; they are attractive when in flower, and are interesting and pleasing during the blooming period.

Dwarfs must be grafted, you cannot confine them. Unscrupulous dealers sell very low headed standard trees as dwarfs, so get your stock from a reliable source. They should be grafted on a stock, thus giving the short jointed, dwarf habit to the quince without in any respect changing the characteristics of the tree. The same effect upon the apple when the latter is grafted. Peaches should be worked on the plum, which is the best gain we can make in this

(Continued on page 8)



An antique damascened dagger of bloody history made in Venice to the order of some 'high, impetuous spirit'



J. M. ROSE

The glamor of medieval times is in that rich plunder of the past upon the walls and counters of the metropolitan galleries

THE PLUNDER OF THE PAST

Now Being Purchased by Americans
for the Glorification of Their Homes

CLIFFORD POPPLETON

is an interesting experience to attend one of the big dealer's sales. He has a collection, perhaps, of some Italian, French or English aristocrat, fine antiques shipped to New York under heavy insurance, and unpacked with a delicacy beyond conception of any but an egg merchant. It may be the collection of a departed Wall Street money-king, whose heirs have decided that the money would be more useful to them than the art.

You are probably surprised at the magnificent air of the rooms themselves. The thought of luxury was not associated in your mind with the thought of sales by auction; yet here are deep-carpeted, high-galvanned chambers, murmuringly alive with silks and furs.

The collection has been on display for several days, and many of those present here before and have now come redoubled on a plan of action; these are preoccupied and finger their watches a little impatiently. Others are making a hurried investigation, jotting a note now and then. Everyone carries an expensively bound catalogue that has been lovingly compiled by the cognoscenti and printed in best typographical taste.

THE auctioneer is a mortal shrewd fellow. He has to be or he wouldn't be where he is. He looks around him with a glance and you have half a notion that he knows how much money there is in your pocket. You are sadly conscious that your pocket is thirty dollars, or fifty, or whatever it is, and you bear yourself accordingly. The law of the great auction rooms is, simply, that the highest bidder gets the thing he bid for. Reserve prices are the rare

exceptions. The stuff is there to be sold for what it will fetch and your dollar is as good as the next man's. If competition is scarce you may buy a fine antique cheap, and if it is rife prices go sky-high. Do you think it would be interesting to have a book that was printed two hundred and thirty years ago? One went for fifty cents in a famous auction room recently. The man who bought it might have been willing to pay twenty times the amount, or fifty, but he waited until he saw that no one else was going to bid, and then he said mildly, "Half a dollar."

At the same sale a copy of Burns' poems with an autograph note from the poet fetched the sum of nine hundred and twenty-five dollars.

BUT to pick up the thread again, observe that dealer over there, leaning, regardless of rules, against one of the exhibits, a heavy Jacobean cabinet. So far he has shown little interest in the sale, but now the auctioneer calls "53 A." This lot is the figure of a child in bronze by an Italian sculptor of the 16th Century.

"What am I bid for 53 A?"

Silence.

"Come, give me a start please."

Silence.

"I can't sell it unless someone will give me a start. May I say ten dollars, will you let me say ten, it's a fraction of what it cost."

"Ten."

The languid dealer has spoken.

"Ten I am bid, ten, ten, twenty, twenty, twenty, fifty, fifty, fifty, fifty, a hundred, a hundred, one hundred dollars I am bid."

Ah, Mr. Dealer, this is no "snip." Two more bidders have jumped in. An attendant

puts the laughing bronze girl down on a table where she may be examined by late-comers. The clear, modulated voice of the auctioneer runs on firmly and fluently. Subtly he is conveying to you something more than that he is bid one hundred dollars for 53 A.

"One hundred, one hundred, one hundred."

A bald fact, true, but listen again. Is there nothing else?

"One hundred, one hundred, one hundred."

There is a quality of restrained surprise in his tone. You feel that someone is wounding him in his finest sensibilities; you are not sure that so sensitive a man should be an auctioneer; he is as thin-skinned as the princess in the fairy tale who could feel a pea through several feather beds.

"One hundred, one hundred, where's my hundred and twenty-five?"

The bidding is against the languid dealer, who now raises his eyebrows an eighth of an inch.

"One twenty-five I have, one twenty-five I have, where's my fifty; one fifty I'm bid, one fifty, one fifty, one seventy-five, one seventy-five, two hundred dollars, two hundred dollars I have."

SHARP eyes, these auctioneers have, for the slight, significant movement. A peculiar glint in the eye, a nod hardly perceptible to the casual observer, or a slight twitch of the catalogue—they are all bids among the experienced.

"Two hundred, two hundred, two hundred."

Still a bald announcement, but his tone is

(Continued on page 74)

CONTINENTAL COLOR FOR AMERICAN HOMES

COMING down the Lago di Garda you can see them—clusters of them clinging to the hill-sides like great brilliant clouds. You can see them in the sleepy villages of Bavaria and in the hamlets of Switzerland. For the native of the Continent has always painted the exterior of his house in brilliant colors and vivid designs. Crude though the technique may be, it lends an air of genuine interest to the house and indicates with what care and pride the owner has built it.

Here in America we have not gone much beyond tinting and painting our stucco houses, and the exteriors on which rich decorations have been lavished are few indeed. Perhaps the absence of these decorations is due to the fact that Americans are only now arriving at an appreciation of the value of strong colors in decoration. Doubtless, another generation will see exterior color more in use, and perhaps more decorative mural paintings.



Taylor & Levi, Architects

The walls of the residence of Mrs. Helen Hartley Jenkins at Norfolk, Conn., have been frescoed with Slavic figures and borders. W. de Leftwich Dodge was the artist. The position here, under the eaves, is the proper one for such murals

Photograph by Tebbs

Frescoes And Paintings
Borders That Give
Life To The Street
House

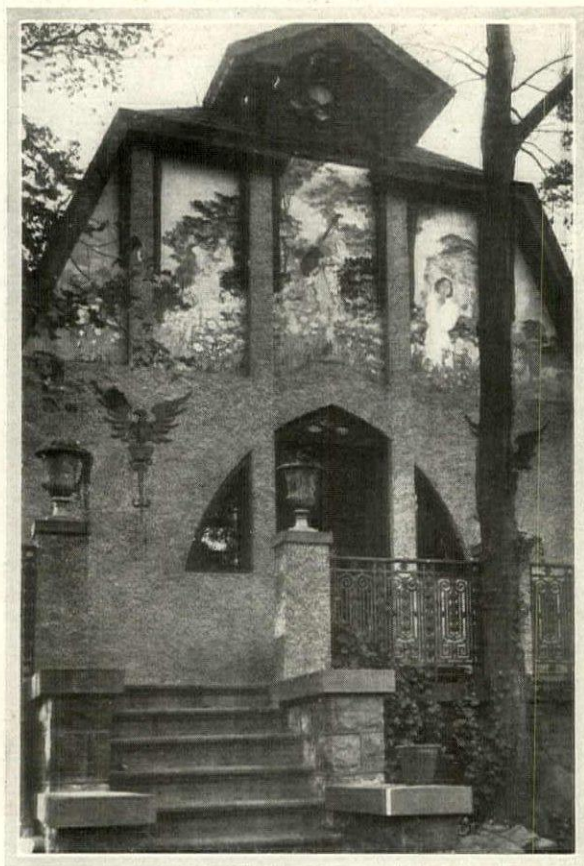
Moreover, the position of some of the frescoes was not conducive to their permanence, for the pictures require the overhanging eaves to protect them against inclement weather.

The other residence illustrated is the home of Mr. Dorl, on the Palisades.

The walls were especially designed to provide murals up under the eaves. In long panels between stucco pilasters were painted sections of a large fresco showing maidens working through a flowery landscape. The work is modern in character and the colors brilliant. In time, of course, they will tone down and blend with the color of the walls. Try to visualize the façade of the house without the murals and their value at once becomes evident.

Murals such as these designs of a simpler character, are perfectly feasible for many styles of stucco houses. The decorations may be nothing more than a stenciled band of color.

(Continued on page 33)

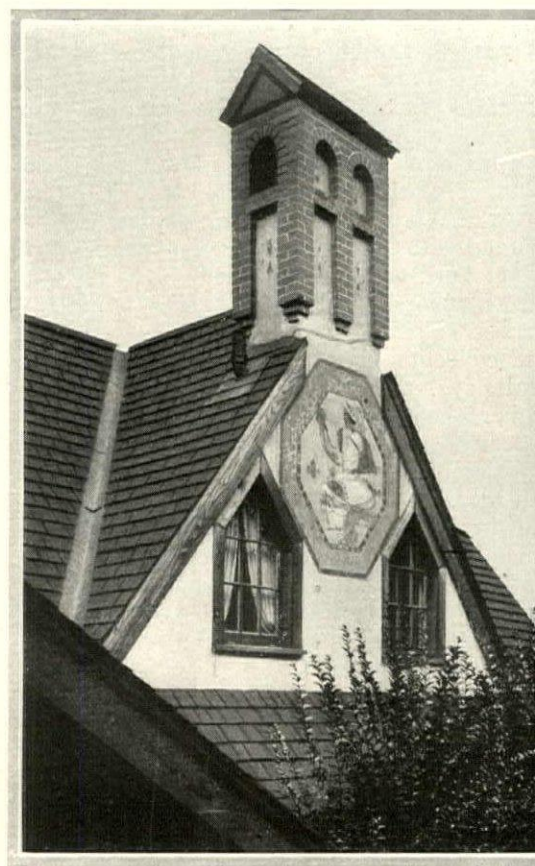


Photograph by Social Press Ass'n.

Panels have been painted on the upper facade of Mr. Dorl's Bontempi Villa on the Palisades, N. Y. The subject is modern and the colors brilliant

On this page are glimpses of two American homes that are decorated with paintings laid directly on the stucco wall. One is the residence of Mrs. Helen Hartley Jenkins at Norfolk, Connecticut. Architecturally, the house is a bungalow save at one end where the living-room has been carried up a second story to provide for a gallery at one end and an upper row of windows. The timbers, which are exposed, are solid chestnut painted and left to weather. The entirety of the exterior wall, except where these timbers cut through the plaster surface, has been frescoed. The general background is a tawny tone and the figures, inscriptions and border designs are adaptations of old Slavic forms and peasant sayings painted in brilliant reds, greens and yellows. The artist was W. de Leftwich Dodge, the well-known mural painter.

The difficulty that confronted Mr. Dodge in the execution of his work was that the painting had to be done while the cement was still wet.

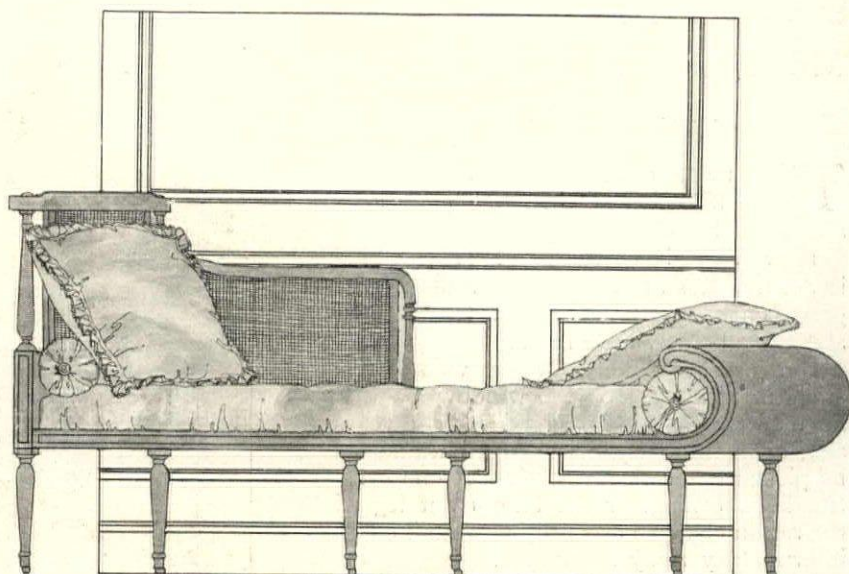
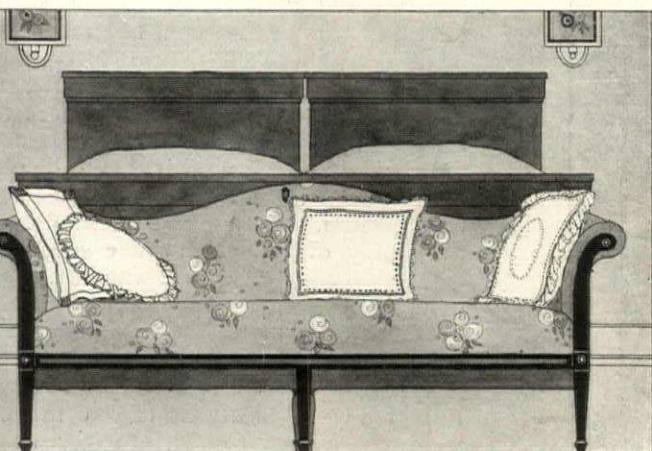


Photograph by Tebbs

While the entirety of the exterior of the Jenkins bungalow has been given a tawny ground color, frescoes have been painted in the larger spaces

CUSHIONING THE COUCH AND THE DAY BED

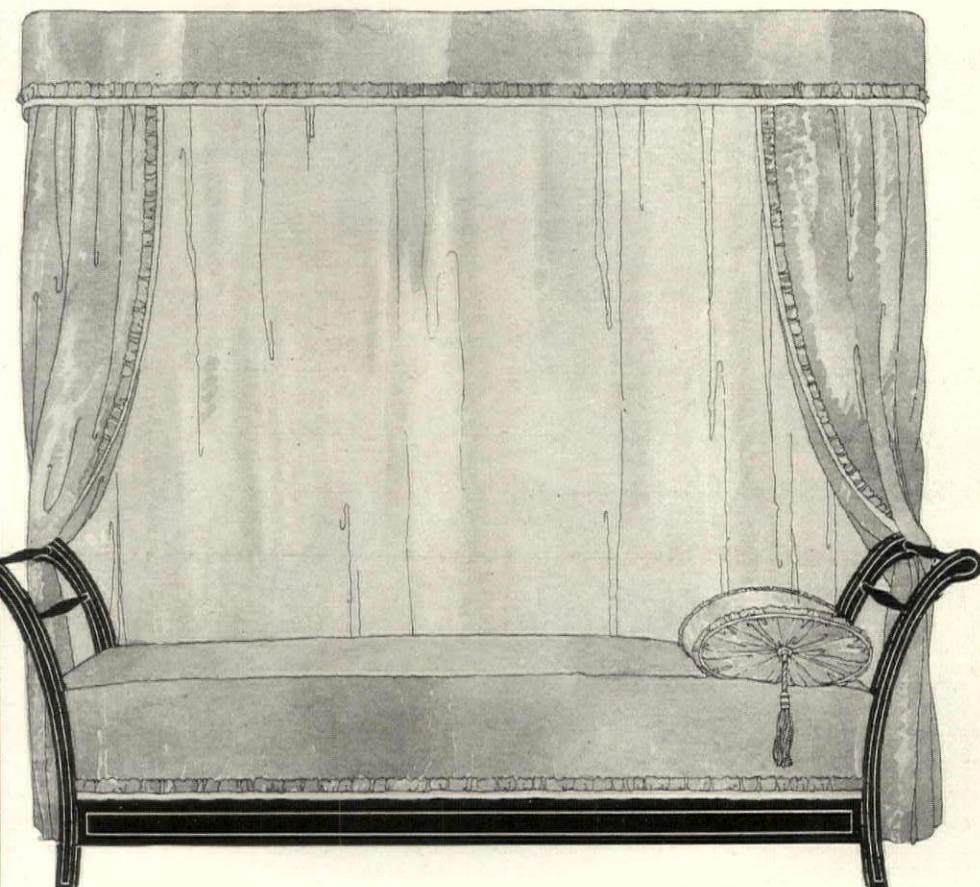
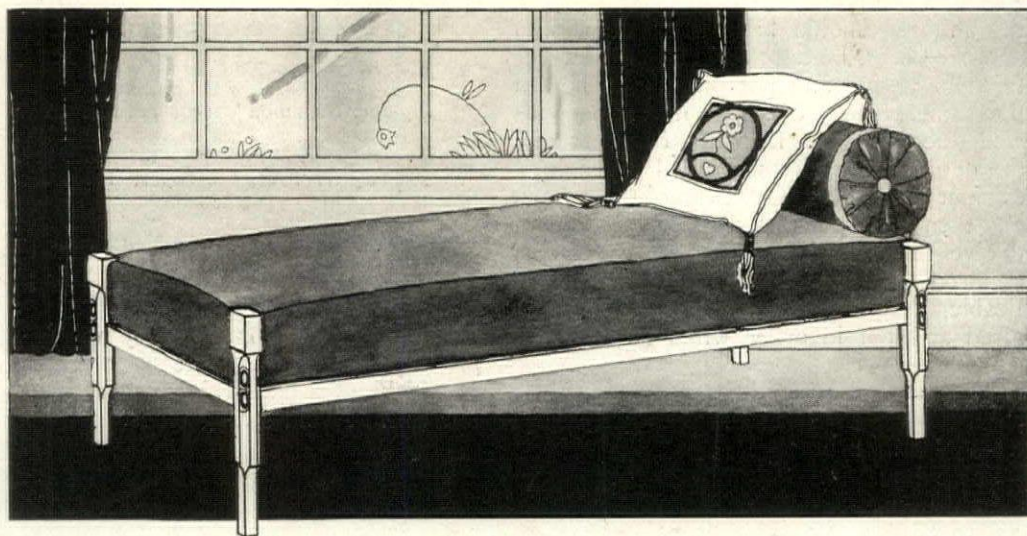
Much of the distinction of a couch or day bed is due to the cushions that are upon it and the way they are placed. They are like the trimming on a hat. You can utterly ruin the looks of that model by sewing the gown in the wrong place and you can miss half the charm of that Adam day bed by failing to have the right cushions in the right place. This page is one of a series devoted to these small points of decoration. In January, curtains were shown; in February, French doors. If your individual decoration problem still remains unanswered, write The Information Service, HOUSE & GARDEN, 445 Fourth Ave., New York City.



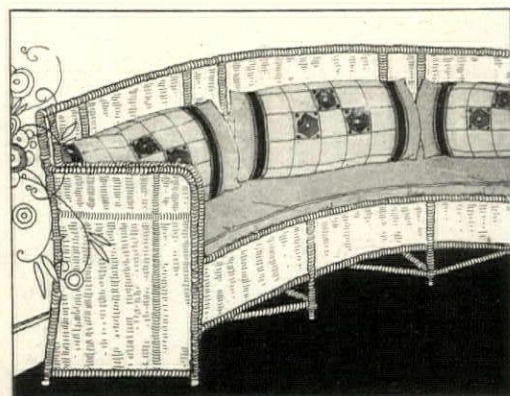
On an Adam day bed of this type of enamel wood and cane there should be used, first of all, the foundation cushion. At either end should rest a long tubular bolster cushion and over them two flat square pillows. Such materials as taffeta, striped or plain, or certain of the more formal linens may be used

The day bed or couch of Colonial design can be upholstered in a glazed chintz when in the bedroom. It should have the simplest form of lingerie pillows, showing neither lace nor embroidery, but a crisp ruffle trimming. As a day bed of this character is intended for use with simple furnishings, the pillows should be in keeping

Below is shown the solution of a day bed problem. Between the rooms was a wide door which was closed up. Against this was hung a soft yellow silk curtain. The over-curtains and valance are of pale, cool, green taffeta with a tiny frilling of yellow which finishes the turn back hem. The day bed is covered in the same green taffeta piped in yellow, and at either end, by day, is an unusual oval pillow. Agnes Foster Wright, Decorator



Visualize an ivory white Continental type of day bed, decorated in small designs of black and with a touch of brilliant color. It is covered in black satin with one tubular bolster pillow of black satin decorated with jade green and with a jade green button at each end. Against this is placed an ivory white satin cushion with a center motif combining jade green, black and pale lemon yellow. Tassels and binding of pillow are lemon yellow with a touch of jade green and black



The popular form of curved wicker settee requires this style of cushioning. The cushions which should repeat in design the features of the settee, may be of gay linen or chintz, or of heavy duck or linen, with futuristic decorations that might be worked in worsted

THE LEGENDS OF THE MODERN NURSERY

AGNES FOSTER

THE most disenchanting moment of one's life comes when one goes back and visits his old nursery.

How Time has shrunk it! The ceiling is not limitless after all, nor are the closets great, dark, mysterious holes. It is really a skimpy, homely little room.

But pity be to the grown-up who cannot smile at the gouge on the window sill that he made with his first knife thirty years ago, or at the putty holes in the headboard he picked out with his finger-nail one early Sunday morning, or the bare front leg of the rattan chair he carefully unwound on an interminably rainy afternoon!

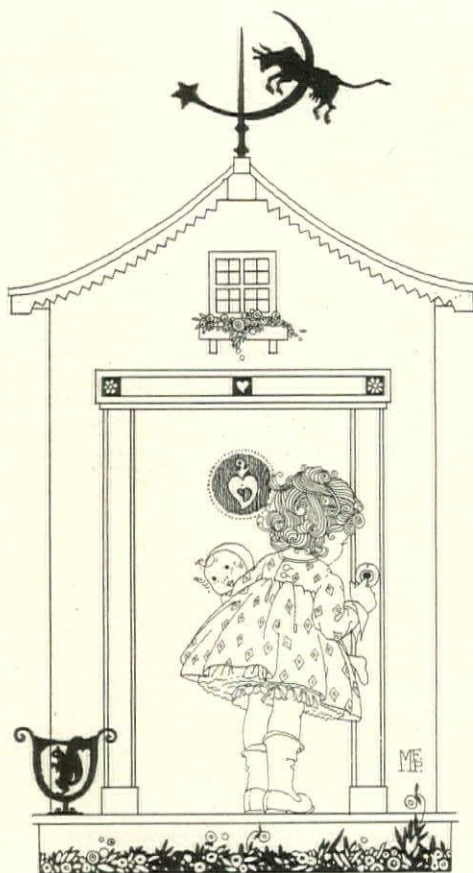
Nurseries are planned with more care today than they used to be, and the man of thirty years hence will have a richer heritage in the legends of his nursery.

WHAT NURSERIES ARE FOR

Happily it is now seldom that the nursery must also serve as the children's bedroom. When it must be used for a bedroom, the children should have their suppers in another room, because it is unpleasant for them to be fed and put directly to bed in the same room. Children never sleep as well due to the excitement of supper and the odors. It is an established psychological fact that playing and eating in one room and then being put to bed in another is conducive to the refreshing, restful sleep of children. If this arrangement is impracticable, the nursery should be thoroughly aired and put in order while the children are supping elsewhere.

The nursery should be considered the child's inviolate domain. His playthings should be kept sacred and he should be permitted to have some say about their disposition. Children have queer fancies: they like to keep certain toys in certain corners and on certain shelves. Why shouldn't they? We grown-ups have a favorite corner for our glove box and another for our handkerchiefs, and we wish them kept there. Thwarting a child's fancies in these small matters may make him whiny and broken-spirited.

In the first planning of the room, provide sufficient shelving, closet and play-box space to accommodate the toys and trappings of the shield.



For the nursery or garden playhouse an iron-worker has made a "Cow-jumping-over-the-moon" weathervane. The outdoor size, 6' high and 3' wide, \$65. The smaller, 3' high and 18" wide, \$45. The squirrel mud scraper, 12" wide, \$7.50

And make it an unbroken rule that things are to be picked up and put in their places each night before bed-time.

The best finish for a nursery wall is semi-gloss paint, which is easily washed. It should be of a cheerful cream or light yellow tint. Avoid strong tones.

How They Are Being Tamed in New Curtains, Paper and Tiny Furniture

The walls should not be covered with brilliantly colored, grotesque figured paper. It is exciting and soon becomes tiresome to the child. A child is easily impressed by surroundings and reacts to them. If the decoration is crude and grotesque, his mental conception cannot help but reflect that crudeness. If the walls have a pleasant, refining line with a border of delicate fairy tale pictures, he is equally sure to be affected by them.

When a frieze is used it should be placed high enough to be a mysterious decoration to the child. It should be well designed, preferably of some fairy tale subject. A black silhouette border of fairies is to remind the most charming nursery decoration. It has a mysteriousness about it, possibilities around which the child's imagination can weave a story. Moreover, it is really decorative. If, on the other hand, one wishes a pictorial paper, not much could be better than the Kate Greenaway paper of "The Months." The colors are soft and the figures are quaint and charming, with a direct child appeal.

WALL COLORS AND MIRRORS

It is well to have the nursery walls washable, because in the case of a diphtheria throat or a semi-contagious sickness, the walls may be washed down with a disinfectant. Then, too, young artists' striving may be more easily washed, than run away from wallpapers, as they are usually penciled with a strong, heavy line which was intended to "stay put."

Soft rose and blue are nice, suitable colors to use, though children sometimes

have a full prejudice against these colors, whereas they are variably liked. Grey, red or dark blue or the eternally neutral buff are bad nursery colors as they elicit no response in childhood.

It is well to have a low mirror on the wall for two reasons and perhaps as many more. It is well not to but we must anticipate children being vain or proud. If a nursery has a mirror, a tiny child is so apt to be some. There is always an old dancing, jumping little child just the other side of that looking glass frame. Also, if a



W. & J. Sloane, Decorators

In the residence of Captain J. H. Poole of Detroit is a playroom especially designed to hold plenty of toys. Low benches circle the room and all the furniture is diminutive. The small table is just the thing for teas and fine crayon work!

Photograph by Gillies

a sometimes see
self messy as
all as hearing that
is—children be-
uncertain vis-
izers—he is apt
keep himself
aner and in bet-
order. A cer-
a amount of
ity saves nurse
d mother; be-
des, who can
me a child who
ds her own re-
ction entertain-
to look upon?
Painted panels
the children's
om are a luxury
it is not prohibi-
e. There are
ny artists that
quaint and
arming designs
d they make of
e nursery a spot
joy and wonder.
e panels should
ve a story to tell,
fable or rhyme
a fairy tale
ich years have
oved to be of
erlasting child-
od interest and

ue. By all means consider their use.
Lithographs from portfolios and child-
od verses may be framed as panels and
d much interest to the nursery. These
ures are usually painted in flat, clear
es and lend themselves admirably to use
panel pictures.

Birthday, Christmas and Valentine cards,
ead of being pinned up on the wall,
ld be kept in a flat, wooden box prettily
corated. In this way they can be kept
an and serve as an amusement for a sick
rainy day. It is having no place for such
ngs that makes clutter.

Windows, through which the south or
athwestern sun should come, may be
w and small paned, for
rotection against being
oken, a saving in the cost
replacing, and the pre-
ention of a child's falling
t. It is best to have the
ndows on adjoining, not
posite walls, to avoid
nger of draughts.

SUITABLE CURTAINS

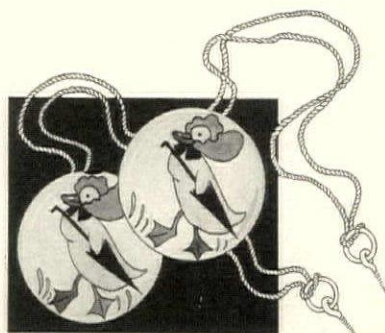
The curtaining should be
shable. A pretty light
nfast or a small figured
tonne is excellent, and
e patterns procurable are
chanting. Scrim curtains
h an inch binding of
k or blue on the curtain
es and on the ruffled val-
ce give a pretty effect.
e same may be done on
ed covers, if the scrim
sufficiently heavy. A plain
avy fabric is too easily
led with sticky fingers to
used in the nursery.
e best combination is a



W. & J. Sloane, Decorators

Photograph by Gillies

At one end of the Poole playroom is the supper corner. On the drawers of the plaything cupboard to the left is painted, "A place for everything and everything in its place." Meaning that you must put away your toys before you can have supper



They are ducky things, these curtain pulls for the nursery window. The cords are white silk; ends are discs enameled white and painted blue, yellow, red and green. \$1 a pair

low would be a delicious winter nursery drapery. The furniture could be painted blue and striped in yellow. With a soft blue rug for the blue-eyed, golden-haired Little Lady—what could be more "suitable to her personality!" The furniture could be upholstered in a narrow blue striped line with flowers and tiny birds, an inexpensive but distinctly childish pattern always to be found in the shops.

CORNERLESS FURNITURE

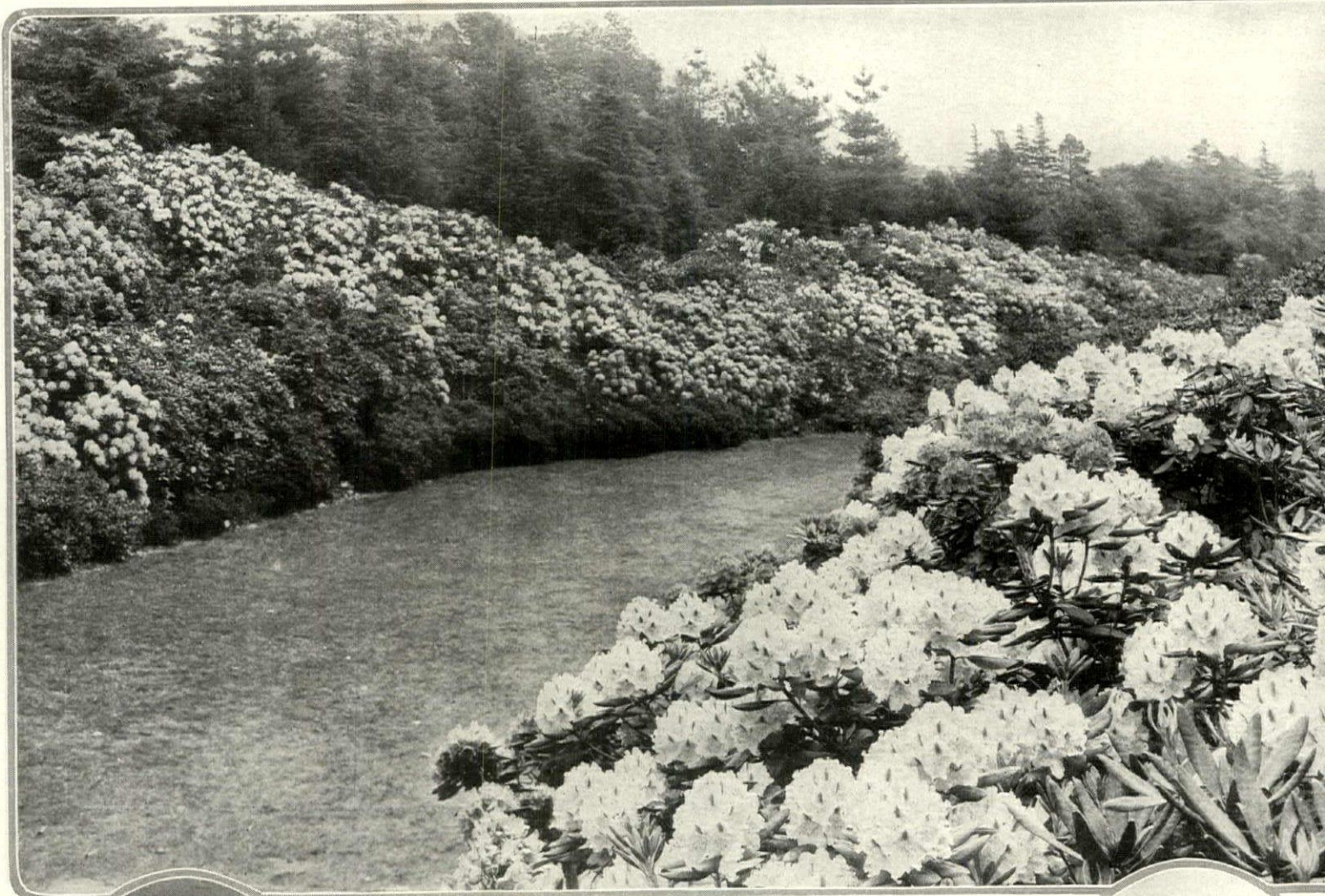
Wicker is excellent for nurseries because it has no sharp corners and it can be readily re-dipped when it becomes shabby. A vacuum cleaner or a good, stiff beating with a padded stick will keep it clean. Wicker tables, if used in the nursery, should have wooden tops, as wicker tops give an unsteady surface for tiny tea services and for fine crayon work!

Wicker combines excellently with painted furniture and mahogany. It gives lightness and variety, but it should always be stained or enameled. Unfinished wicker furniture should no more be used than unpainted wooden furniture. It is im-

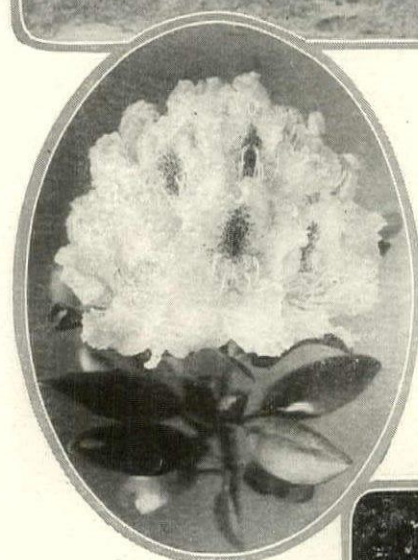
(Continued on page 96)



Please examine this room without disturbing Curly Locks. The table cover is white oil cloth with a Dutch girl in the center, 30" wide, \$5. Side paper 30" wide; buff or putty color; 60 cents a yard up. The frieze in blue or mouse color is 10" deep; 30 cents a yard up. Crib and combination wardrobe of ivory enamel, Dutch figures in blue. Crib, 48" by 24" and 36" high. \$35. Wardrobe, 36" long, 18" deep and 42" high, \$55



Informality should characterize the planting scheme of rhododendrons. Here it is attained by the solid banks of bloom and their natural background of trees



Viewed singly, the flower heads show unexpected delicacy of form and texture

AS TO FLOWERING EVERGREENS

GRACE TABOR

Photographs by Nathan R. Graves



Besides the white, rhododendrons may be had in various tones of pink and red

ALL evergreens produce flowers, of a kind; but not all produce flowers that are noteworthy to any but the simon-pure botanist.

I am moved to the making of this pseudo-apology by reason of the botanist's well known jealousy of exact terms. I stand in great awe of the botanist; and I know that I have not, strictly speaking, a right to distinguish as "flowering" evergreens the plants which I am here about to consider. But it is a phrase that means a great



deal more to the layman I am sure, than the technical "broad leaved evergreens" of scientific precision. Besides, they are not so very broad leaved, literally—save in comparison, perhaps, of the needle leaved species which commonly possess the entire family under the general name "evergreens."

It is, it seems to me, notable that the show flower in American w

An excellent example of rhododendron planting suitable hillside location

that of a purely American shrub which is evergreen in its habit, the native laurel or calico bush. In the masses of it which Nature plants, it furnishes a display of floral splendor hardly surpassed by anything in the world, and certainly rivalled by only a few things. Its near relative, the rhododendron, grows all over the world, practically; but laurel is distinctly a North American species.

These two belong to quite a wonderful plant family, a family which it is necessary to know if one is really to know anything about evergreen shrubs; and as the entire family shares to a marked degree the same likes and dislikes, and requires the same general care and attention, I am going to enumerate such of its numbers as we, in our gardens, have occasion to become acquainted with.

THE HEATH FAMILY

The name of this family is *Ericaceæ* to the botanist; to the man of common speech, heath. The heather of English moors has probably the greatest general popularity of any of the breed, and has been praised in song and story

In all cases, naturalism is the primary consideration when using the broad leaved evergreens. About the house particular care should be taken in accomplishing this



When mass planting is followed with rhododendrons, scraggly specimens must never be allowed in the foreground. The foliage should reach the ground in front, as here

with greater sentiment than all of the rest. All heathers are members of the family, and being so abundant have given the common name which they gained from the waste spaces whereon they grow—"heath"—to all their relations.

So then we come to the rhododendrons and the laurel and the azaleas, as well as to an interesting little shrub which is called Labrador tea or wild rosemary in the folk tongue—*Ledum latifolium* in formal speech. The leaves of this are somewhat aromatic and it is said that they were dried and used as a substitute for tea during the Revolutionary War. Many things served as such substitutes in those days.

PECULIARITY OF GROWTH

Running the gamut in plant individuality though they do, there is yet one thing which is especially mentioned in connection with every one of these widely differing allied species, wherever they are described and their habits noted: "grows best in a moist, peaty or sandy soil." Without exception, this is their preference—"a moist,

(Continued on page 60)

The flowering evergreen shrubs do not combine well with deciduous sorts. A distinct line of demarcation should separate them from such other plantings

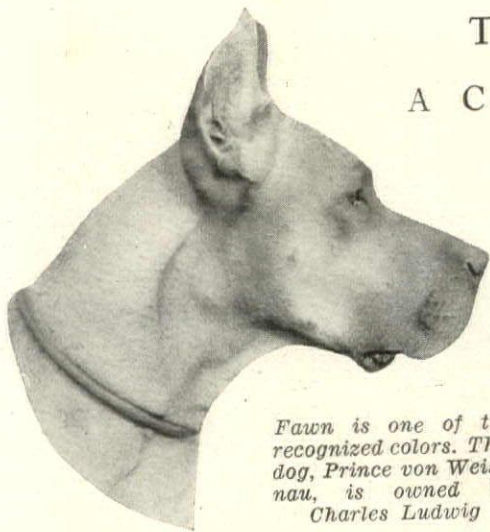


THE NOBLE DANE

A Country Place Dog of Fine Lineage
and Exacting Points

WILLIAMS HAYNES

Photographs by R. W. Tauskey



Fawn is one of the recognized colors. This dog, Prince von Weissenau, is owned by Charles Ludwig

IN these days of electric burglar alarms and telephone connections the larger breeds of dogs fare badly. There is now but little demand for their strength and courage as a protection against unwelcome visitors about the country place. In the city, we are more and more inclined to give up the town house for the apartment, and they are frankly too much of a dog for a small room. Even the dog shows, to which so many breeds have owed their first burst of popularity, have been a positive drawback to the large varieties. Their board bills, when kept in kennels, are considerable, and express charges to and from the exhibitions, being based upon so much per pound per mile, have kept many with a true love for the great dogs from taking them up as a hobby.

And yet a great, powerful, dignified dog adds a touch to the spacious hall or to the broad lawn that nothing else in the world can give. They fit perfectly into such surroundings, and they furnish them with a dignity and just the right suggestion of pride and strength. Moreover, it is not merely our imagination that makes us associate nobility of character with a large dog. He is courageous without the necessity of being reckless, and he is calm and gentle because he is conscious of his strength.

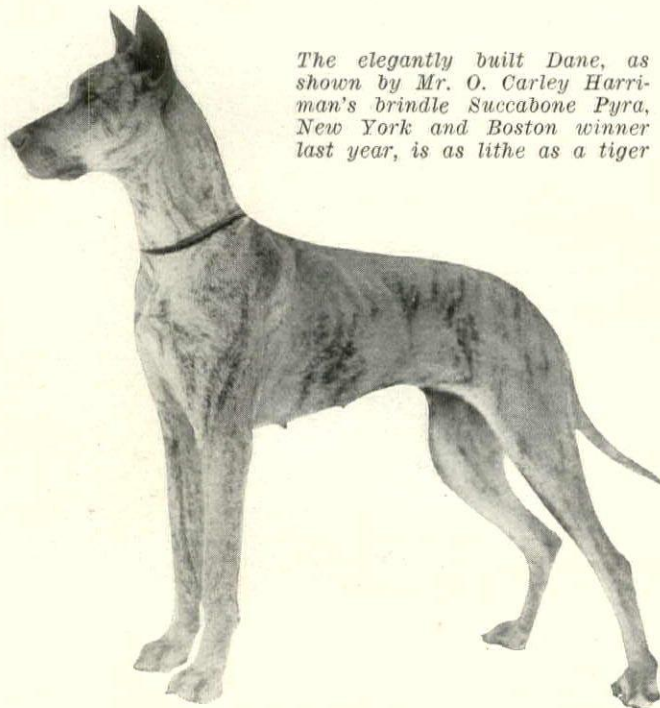
WHY THE DANE FITS

Because he has all of these desirable attributes of the large dogs and because with all his great size and powerful strength he is a dog of fine symmetry and extreme gracefulness the Great Dane has continued to hold his own in this day of the terrier and the toy. It is rather curious that the biggest of all the big dogs, the one whose very name is *Great Dane*, should have retained the favor once enjoyed by all big dogs in these times when size is no longer an especial recommendation. He has done so because there is nothing unwieldy nor lumbering about him—although an active dog he is never clumsy. Lithe and graceful as a tiger, with hard muscles that ripple under his fine satin coat with his every movement, he is an impressively powerful dog. His calm courage shines out of his bright eyes and shows plainly in the proud carriage of his great head. He fairly commands that the adjective “noble” be linked inseparably with his name.

The Great Dane's head is very expressive of his noble character. The head points of any breed of dogs are their most distinguishing characteristic, and Great Dane breeders have with great care developed the heads of their dogs to a point of fine perfection. The skull is long with a slight crease up the center. The cheeks must be as flat and smooth as possible. The foreface is long and broad and deep with a square, blunt muzzle and a large nose. If the bridge of the nose is not wide enough, the dog, when viewed in full face, looks snippy, and should the proper depth of the muzzle be lacking and the lips too tight and wanting in squareness, the dog, in profile, looks what fanciers call “snouty.” Of course, a combination of these two faults will quite ruin a Dane's head, giving it a common, underbred appearance. The Dane's correct expression, alert and masterful but without the slightest suggestion of meanness, depends very largely upon small, dark eyes set under prominent, well developed eyebrows. Neatly cropped and well carried ears add a great deal to the dog's dashing aristocratic appearance, and in England the anti-cropping edict in force has been a severe handicap that the breed is only just beginning to overcome.

TEUTONIC MEASUREMENTS

The perfect symmetry of the Dane has been reduced to strict mathematical terms by his methodical German friends who have discovered that in a dog that is 30" tall at the foreshoulder, the line from the shoulder to the ground should be divided in half just at the point of the elbow and brisket. Moreover, the line from the crupper, which is the top point of the hindquarters, to the ground should be just equal in length to the same line from the shoulders, and it should be cut into a third at the angle of the hip and flank.



The elegantly built Dane, as shown by Mr. O. Carley Harri-man's brindle Succabone Pyra, New York and Boston winner last year, is as lithe as a tiger



The harlequin wears a mottled coat that makes him an interesting spot in the landscape

Extremely large dogs are very often tall at the crupper than at the shoulder, a fault that is usually combined with straight, stiff hindlegs, and straight hindlegs, in turn, result in a jerky, ungraceful movement. So closely are proper conformation and the elegant grace of the breed bound up together that there is the best reason for demanding perfect symmetry in the Dane. For the same reason, dogs that are markedly low behind than in front—a malformation stigmatized on the Continent as “hyena dog”—are in particular disfavor.

The German measurements also require that the line down the back from the point of the shoulders to the crupper be one-sixth longer than half of the dog's height. This is also the ideal length for his tail. It is interesting, and alas, sometimes a disappointing thing, for a Great Dane owner to apply the yardstick—not the tape measure—to his dog to discover how he measures to the perfect scale thus laid down.

Other points that count in judging a Dane are the legs and feet, the tail, coat and color. The front legs should be straight and heavily boned; the hindlegs long, very muscular with straight, low hocks. The feet are of good size, but they must be very compact and well knuckled up. The tail, which is thick at the base and tapers to a fine point, ought to reach just to the hocks. Of two evils, however, a tail that is too short is better than one that is too long. “Short, dense and sleek looking” is the official description of the coat. It must be neither coarse and wiry nor of a silky softness in texture.

THE RECOGNIZED COLORS AND POINTS

Five distinct colors are recognized: fawn; brindle; blue, which is a slatey grey; black; and harlequin, or small, jet-black spots evenly distributed over a white ground. The German breeders are very scrupulous in mating to keep the different colors pure and distinct, and while the fawns and brindles are interbred, and the blues, blacks, and harlequins, so to cross a harlequin with a brindle, for example, would be a mesalliance but one degree worse than mating to a mastiff or greyhound.

The different points that make up the typical dog are well summed up by the Standard of the Great Dane Club of England, which

(Continued on page 92)



Photograph by Gillies

A LITTLE PORTFOLIO OF GOOD INTERIORS

The design of this Little Portfolio is to assemble each month a group of rooms in which the distinction has been gained through applying the principles of decorating. They also show the trend of the mode as it is set by the latest work of interior decorators and architects. Invariably do they contain helpful suggestions. But if your individual decoration problem is not suggested here, write The Information Service, HOUSE & GARDEN, 445 Fourth Avenue, New York City.

Brite, Architect

At the top of the page is a view of the living-room in the residence of Herbert Lee Pratt, at Glen Cove, Long Island. The floor is of light brown tile set in a mortar with a pattern of limestone. The walls have been painted up to the spring of the window arches; that the walls are white. The furniture is painted in brownish green stain. A divan is upholstered in a pattern of reds, greens and black around. The pillows are black and white, and the shades are of black and white stripe.



Photograph by Johnston-Hewitt Studios

In the apartment of Mr. Chauncey Olcott is a little reception room off the living-room in which formality and hospitality have been well established in the furnishings. The walls and carpet are a light green. The furniture is painted. A day bed upholstered in yellow stripe silk proves an excellent fitment for the room. The curtains are mulberry silk with glass curtains of rose silk. The general color scheme of the room is restful while the furniture and decorations give it personality and interest. It is the sort of reception room that establishes the character of the rest of the house—as that room should do.



Frank C. Farley, Architect

Photographs by Johnston-Hewitt Studio

The three rooms shown on this page are in the residence of F. Peabody, Esq., at Lake George, N. Y. Above is the living-room. The woodwork and ceiling are painted cream. The walls are covered with linen damask of a putty color. Blue and plum colored figured linen has been used for over-curtains with under-drapes of cream scrim. Walnut and mahogany furniture is combined. Chinese jars have been converted into lamps. By the fireplace stands a bronze candle stand. The floor is stained dark and on it is laid an Oriental rug which tan predominates.



Off the living-room is a little card room in striking colors. Panels of paper in green, black, yellow and red alternate with painted panels in dark green with mouldings picked out in a lighter shade. The davenport is covered with a scarlet brocade. Curtains are red and the rug is a neutral tone. The furniture is Cuban rosewood upholstered in red. A green lampshade tones in with the walls.

In the dining-room the walls are hung with a linen rep of brown and putty color stripes. The rug has the same tones. At the windows hangs a blue and yellow linen with double sash curtains of cream scrim. The lighting fixtures are bronze, and the two mirrors, gilt. A three panel screen by the pantry door is of leather.





Photograph by Johnston-Hewitt Studios

In the residence of Mrs. Oakleigh Thorne at Millbrook, N. Y., is a Tudor room paneled in dark oak, that forms the architectural background for sturdy furniture of the same period. Above the paneling have been hung mounted heads. Wrought iron candelabra flank the fireplace. The chairs are deep and easy. It is a room of strong personality and definite historic affinities. The focal point of interest is the fireplace. It is of Caen stone with carved over-mantel above, the designs being consistent with the period of the room. An Oriental rug is on the floor.

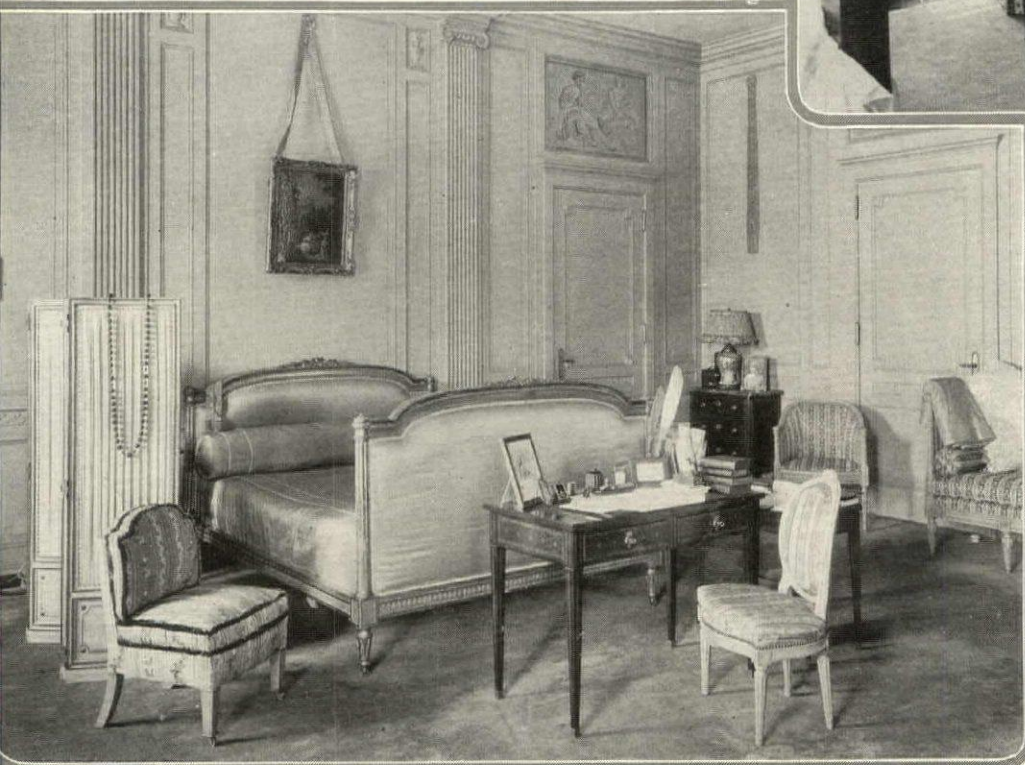


Frank C. Farley, Architect
Photograph by Jackson & Whitman

A quiet bedroom corner is a desideratum for any home. It should be simple, restful and convenient. In this instance the furniture is mahogany and wicker, the curtains rose and white. On the walls is a two toned stripe paper in rose. A tapestry firescreen in a gilt frame stands before the fireplace and over the mantel is a mirror of Colonial design in gilt. The woodwork is painted cream. A rose colored shade completes the color scheme.

Photograph by Tebbs
Elsie de Wolfe, Decorator

Dignity and comfort have been successfully created in the bedroom to the left, which is in the residence of Armond G. Smith, Esq., at Center Island, L. I. The walls are tinted a pale green and the upholstery of the bed and its cover are of the same tone satin. The rug is taupe. Some of the furniture is covered in rose and green, the remaining pieces being marquetry. The architectural background of the room is formal in its pilasters and panels. Over-door panels or grisailles are in low relief.



MAKING THE NEW GARDEN

How to Get Good Results the First Season in Your New Flower or Vegetable Garden, Hardy Border or Rose Planting

F. F. ROCKWELL

THERE is a commonly accepted belief that good results cannot be counted on from your new garden the first season. This idea has sprung from the fact that first-year gardens are generally not as good as older ones. But this is, in most cases, because the gardener has not carefully analyzed the problem he had to meet. From force of habit, in nine cases out of ten, the new garden is prepared in practically the same way as one that has been in use several years. To get the best results, however, the preparation should be quite radically different.

The characteristics of any soil which most directly affect its fertility are its physical condition; the amounts of available plant food; the humus contained in it; the degree of inoculation by certain "friendly" or helpful bacteria; and the amount of moisture contained. These are the factors—somewhat prosaic, perhaps, but nevertheless all important—which determine whether you will have big roses and plenty of them, asters that you can cut by the armful, sweet peas as high as your head, tender and juicy beets and plump tomatoes, or struggling, half-starved, scrawny flowers and vegetables that will demand the apology from you to every visiting friend that this is only a "first-year garden, so don't be hard on it."

To get at the root of the matter, let us make a comparison between the new soil and the old and see what can be done to improve the former and make it more productive.

NEW SOIL VERSUS OLD

First there is the question of physical condition. If you dig down about a foot or so into the soil of an old garden, and then do likewise in the soil of a new garden, three things will at once strike your attention. First, on the old ground the top layer or surface soil is very much deeper; secondly, you will notice that it falls apart and crumbles into much smaller pieces, being comparatively free from large lumps, or, if there are any, they break up easily into small, crumb-like particles under a blow from the spade or fork; and thirdly, the color and character of the soil are quite distinct from the new soil, being darker, more uniform in texture, and more fibrous and loamy. Every time a plot of ground is dug and pulverized, every time it is hoed and cultivated, the result is to break the soil up into smaller and smaller particles. The addition of manures, the spading under of millions of plant roots, gradually fill it with vegetable matter which rapidly decays and gives it its darker color. The lower layer or subsoil gets mixed with the top soil, and makes a blend which is quite uniform in character to a considerable depth. This is usually a gradual process, but it can be hastened by the methods suggested in the following paragraphs.

So far as the available plant foods are concerned, it is not so easy to distinguish between the old soil and the new. Available plant foods are combinations or forms of nitrogen, phosphoric acid, potash, and a few other plant food elements that will dissolve in the moisture present in the soil, and can,

therefore, be absorbed or taken up by the plant's roots. There may be, for instance, the same amount of nitrogen in the sole of an old shoe, a piece of charred bone, a forkful of well rotted manure, and a spoonful of nitrate of soda. So far as the plant is concerned, there is a great difference. The nitrogen in the nitrate of soda is available for use within a few weeks or months. That in the bone will become available only as it decomposes gradually during several years; while that in the shoe sole will remain latent or unavailable for many years, as only a very small part of its surface will decompose each season to become soluble in the soil.

Right here there comes in another point which directly affects our problem of making new soil productive as quickly as possible. If the nitrate of soda, the manure, the bone and the leather should each be thoroughly ground up or pulverized before being added to the soil, they will all be available for the plant's use much more rapidly than if they were left in their original states. So

the free circulation of air through the soil and furnishes congenial conditions for rapid increase of the bacteria in the soil. The vegetable matter in the soil becomes valuable for this purpose only as it decays and decomposes—in other words, as it changes from vegetable matter into humus. As with manure and fertilizer, its benefits are felt not as soon as it is added to the soil but several months, or even two or three years in many cases, later.

BACTERIA IN THE SOIL

Bacteria in the soil—or, to be more exact, the expense of using a few polysyllabic, bacteriological activity in the soil—are one of the important factors of fertility because through their development and growth these invisible but extremely active and voracious little bugs aid very materially in changing insoluble and unavailable forms of plant food into forms that are soluble and available. Some of them do even more than that; they assist directly in feeding the plants, gathering nitrogen from the air and "fixing" it in little storehouses or nodules on the plants' roots, where sooner or later growing plants will make use of it.

These minute allies of the gardener are found in much greater numbers in old soil than in new. While they multiply with comprehensible rapidity, there being innumerable generations of them in a single crop, the amount of assistance they can render depends upon two things: the first is their even distribution throughout the soil, so that they can lie in wait, as it were, to go to work at the very first opportunity; the second is the favorable conditions such that they will multiply rapidly. Under ordinary methods of cultivation, it is several years before this even distribution is accomplished and these favorable conditions prevail in any soil; that is another reason why the old garden is likely to make a better showing than the new.

Last, but not nearer greatest than least, comes the matter of soil moisture. Surely, you say, as much rain falls on the new garden as on the old! Very true; but the thing to remember is not how much falls, but how much is saved. The water saving or retaining capacity of a soil is determined by the degree of fineness into which it is pulverized, the amount of humus it contains, and the thoroughness of the dust mulch which it can be kept covered. All of these factors, as we have already seen, are likely to be in favor of the old garden as compared with the newly made one.

IMPROVING SOIL CONDITIONS

There you have the reasons why your new garden is so often disappointing. The practical question that remains is what can be done about it. A definite answer can be given rather compactly, into the following five suggestions, which can be applied equally to the new flower bed and the vegetable garden, the hardy border, shrub plantings, strawberry patch, or whatever you may be expecting to put out this year:

(Continued on page 90)

WHAT YOU SHOULD HAVE TO MAKE A NEW GARDEN

IMPLEMENTS

Wheel hoe, according to type.....	\$4.50 to \$9
Warren hoe.....	.75 to 90 cents
Square point spade.....	\$1.15
Reel and marking line.....	\$1.65
Steel bow rake.....	.80 cents
Draw hoe.....	.50 cents
6" trowel.....	.45 cents
10-quart watering pot.....	\$1
Wheelbarrow.....	\$4

PLANT FOODS

Ground bone.....	\$3 per 100 lbs.
Wood ashes.....	\$1.75 per 100 lbs.
Blood and bone.....	\$3 per 100 lbs.

the more you pulverize your new soil, the more quickly the plant foods in it will be available and the better the crop.

Now, in the old soil there is a gradual accumulation from year to year of all kinds of plant foods in various stages of decomposition or availability, so that you will be getting this season the benefit of fertilizers and manures added to the soil during several years back. The results obtained are naturally credited to the fertilizers put on this spring. And when the same materials, put on new soil, do not give similar results, their failure to do so is wrongly attributed to the fact that the soil is new.

The decayed vegetable matter, or humus, already mentioned, also gradually accumulates in the soil. It is not directly a plant food, but its presence is essential for several reasons. In the first place it tends to keep the soil open and spongy, so that it can catch and retain much more moisture than soil that is without humus. It readily permits

HOUSE & GARDEN'S GARDENING GUIDE FOR 1917

A Condensed Ready Reference for the Year on Culture and Selection of
Vegetables, Flowers and Shrubs, and for Planting, Spraying, and Pruning

Address individual garden problems to The Information Service, HOUSE & GARDEN,
445 Fourth Avenue, New York City.

SHRUBS FOR EVERY PURPOSE

SHRUB	COMMON NAME	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS
For Masses and Borders					
Adonis	Butterfly shrub	6'-8'	Pink, lilac, violet	July to frost	A new flowering shrub, but one of the best; sunny position and fairly rich soil. Flowers are delightfully fragrant.
Andromeda	Strawberry shrub	4'-6'	Brown	May	
Aspidodaphne	Sweet pepper bush	5'-7'	White	July-Aug.	One of the best of the smaller shrubs; very fragrant.
Deutzia	Deutzia	4'-6'	White, pink	June	Very free flowering; a great favorite for grouping. Good for cutting; best effect obtained through massing with other shrubs; charming flowers.
Dracopis	Pearl bush	5'-6'	White	May-June	
Hamamelis	Golden Bell	4'-5'	Yellow	April	Large yellow flowers blossom before the leaves appear. Most striking when clumped; strong grower; free blossoming.
Hamamelis	Tartarian Honey-suckle	4'-6'	White, pink, yellow, red	May-June	
Hamamelis	Mock-orange	6'-10'	White	June	Profuse bloomers; a valued and favorite shrub. Flowers of a beautiful shade. Suited for damp places; brilliant in the fall.
Hamamelis	Flowering plum	8'-10'	Deep pink	May	
Hamamelis	Sumach	15'	White	July-Aug.	Fragrant; nice foliage; grows well even in moist spots. A shrub of exceptional gracefulness. There are many varieties; each has some good point. Graceful; long spikes; flowers late in summer. Of robust habit, blooms profusely, and easy growth. (Eva Rathke especially fine; flowers continuously; very deep color.)
Hamamelis	Flowering currant	4'	Yellow	April-May	
Hamamelis	Bridal Wreath	4'-6'	White	May-June	There are many varieties; each has some good point. Graceful; long spikes; flowers late in summer. Of robust habit, blooms profusely, and easy growth. (Eva Rathke especially fine; flowers continuously; very deep color.)
Hamamelis	Snowball	12'	White	May-June	
Hamamelis	Chaste Tree	5'-6'	Lilac	Aug.-Sept.	Of robust habit, blooms profusely, and easy growth. (Eva Rathke especially fine; flowers continuously; very deep color.)
Hamamelis	Weigela	6'-8'	Red, white, pink	June-July	

For Individual Specimens

Hamamelis	Rose of Sharon	8'-12'	Rose, white	Aug.-Oct.	Among the best of tall shrubs; very hardy; W. R. Smith (new) especially fine. Leaves of many distinct shapes and attractive coloring, especially in early spring. Unique tropical looking. White fluffy seed pods in fall.
Hamamelis	Japanese maple	6'-10'	Foliage, various	Aug.	
Hamamelis	Angelic tree	10'-15'	White	Aug.	Flowers before leaves appear; very attractive. Very distinctive and attractive in appearance; flowers resemble fringed decoration.
Hamamelis	Groundsill tree	10'-12'	Rosy pink	April-May	
Hamamelis	Judas tree	10'-12'	White	June	Not symmetrical in shape but very striking; foliage highly colored in autumn. Very distinctive; flowers in feathery clusters.
Hamamelis	White fringed dogwood	8'-12'	White	May	
Hamamelis	Smoke tree	15'-20'	White, red	July	Not symmetrical in shape but very striking; foliage highly colored in autumn. Very distinctive; flowers in feathery clusters.
Hamamelis	Smoke tree	12'	Smoke colored	July	

For Hedges and Screens

Hamamelis	Rose of Sharon	8'-12'	Rose, white	Aug.-Oct.	See above; plant close, 15" to 18". Absolutely hardy; foliage light green, brilliant in autumn with scarlet berries. Very attractive; many different forms; long lived. Colored fruits. Color changes; very hardy; one of the best late flowering shrubs; enormous flower panicles. Most popular formal hedge plant; plant close, 8" to 10"; prune to shape frequently. New varieties harder than California.
Hamamelis	Japan barberry	3'-4'	White, red	May-June	
Hamamelis	Hawthorne	12'-15'	White to rose	Aug.-Sept.	Set 15" apart; makes a dense hedge; requires a little pruning. Plant 1½' to 2' apart; very graceful in formal hedge; especially for boundary lines. Plant 2' to 3'; very fragrant; good for along walls, etc. Japonica latest blooming.
Hamamelis	Hydrangea paniculata	6'-10'	White to rose	Aug.-Sept.	
Hamamelis	Privet	To 8'			Set 15" apart; makes a dense hedge; requires a little pruning. Plant 1½' to 2' apart; very graceful in formal hedge; especially for boundary lines. Plant 2' to 3'; very fragrant; good for along walls, etc. Japonica latest blooming.
Hamamelis	Japan quince	6'-8'	Bright scarlet	Early May	
Hamamelis	Spirea	6'-8'	White	May-June	Set 15" apart; makes a dense hedge; requires a little pruning. Plant 1½' to 2' apart; very graceful in formal hedge; especially for boundary lines. Plant 2' to 3'; very fragrant; good for along walls, etc. Japonica latest blooming.
Hamamelis	Lilac	15'-20'	White, pink, lilac	May-June	

VINES

VINE	COMMON NAME	FLOWERS	REMARKS
Hamamelis	Silver vine	Whitish with purple centers; A. Chinen-sis, yellow	Very rapid growing with dense foliage; good for arbors, trellises, etc. Edible fruits after flowering. Good where dense shade is not required; very graceful in habit. Most popular of all vines for covering smooth surfaces such as brick and stone walls, etc. In setting out dormant plants prune back to 6".
Hamamelis	Akebia	Violet brown; cinnamon center in spring	
Hamamelis	Boston ivy	Foliage highly colored in fall	Semi-climbing, especially good for covering rough stone work, tall stumps, porch trellises, etc. Unique and attractive foliage. Extremely hardy and robust; most satisfactory late flowering vine. Especially good for porches. Flowers followed by feathery silver seed pods. Extremely hardy; good in place of English ivy in cold sections. Evergreen. Old favorite; one of the most popular for porches and trailing covers. Sunny position; good variegated foliage. Of twining, not clinging habit, especially good for pergolas, etc. Attains great height with suitable support. Sunny position; rich soil.
Hamamelis	Trumpet vine	Very large trumpet shape; red or orange	
Hamamelis	Virgin's Bower	Fragrant pure white flowers in August and September	Semi-climbing, especially good for covering rough stone work, tall stumps, porch trellises, etc. Unique and attractive foliage. Extremely hardy and robust; most satisfactory late flowering vine. Especially good for porches. Flowers followed by feathery silver seed pods. Extremely hardy; good in place of English ivy in cold sections. Evergreen. Old favorite; one of the most popular for porches and trailing covers. Sunny position; good variegated foliage. Of twining, not clinging habit, especially good for pergolas, etc. Attains great height with suitable support. Sunny position; rich soil.
Hamamelis	Evonymus	Foliage, green or green and white	
Hamamelis	Woodbine	Red, yellow and white; very fragrant	Semi-climbing, especially good for covering rough stone work, tall stumps, porch trellises, etc. Unique and attractive foliage. Extremely hardy and robust; most satisfactory late flowering vine. Especially good for porches. Flowers followed by feathery silver seed pods. Extremely hardy; good in place of English ivy in cold sections. Evergreen. Old favorite; one of the most popular for porches and trailing covers. Sunny position; good variegated foliage. Of twining, not clinging habit, especially good for pergolas, etc. Attains great height with suitable support. Sunny position; rich soil.
Hamamelis	Wistaria	Purple or white; immense pendent panicles	

SUMMER FLOWERING BULBS

FLOWER	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS
Hamamelis	12"-18"	White, crimson, pink, blue	July-Sept.	Plant in May in sheltered position, in groups, about 6" x 6". Hardy. Start in heat, or plant in rich light soil in open. Water freely. Plant suitable varieties in rich warm soil. Plenty of water; store for winter in warm temperature.
Hamamelis	12"-18"	Pink, yellow, red	June-Sept.	
Hamamelis	18"-24"	Yellow, white	June-Sept.	Start in heat, or plant dormant roots in rich soil. Store for winter. Sheltered, semi-shaded position, light rich soil. Store in warm place.
Hamamelis	2'-6'	Pink, yellow, red, white	June-Oct.	
Hamamelis	18"-5'	(Foliage) green or variegated	June-Oct.	Start in heat or outdoors after danger of frost, in deep, rich soil; thin and disbud for good blooms. Succession of plantings from April to June for continuous bloom; store cool for winter. Single and double forms; easily grown; good for cuttings. Culture similar to that of gladiolus. Plant 3" to 6" each way; take up or protect. Culture same as above but should be stored for winter.
Hamamelis	2'-6'	White, pink, yellow, red, variegated	June-Oct.	
Hamamelis	2'-5'	Pink, red, white, yellow	July to frost	Plant out in May, or start in heat. June and July planting for late flowers. Good for masses or borders; plant two clumps, in early spring. Store like gladioli.
Hamamelis	2'	White, yellow, scarlet	May-June	
Hamamelis	2'-4'	Red, yellow, scarlet	June-Oct.	Plant out in May, or start in heat. June and July planting for late flowers. Good for masses or borders; plant two clumps, in early spring. Store like gladioli.
Hamamelis	18"	Blue, pink, yellow, scarlet	June-Oct.	
Hamamelis	2'-3'	White	July-Sept.	Plant out in May, or start in heat. June and July planting for late flowers. Good for masses or borders; plant two clumps, in early spring. Store like gladioli.
Hamamelis	8"-10"	White, pink	June-Sept.	

VEGETABLES FOR A CONTINUOUS SUPPLY

VEGETABLE AND TYPE	REPRESENTATIVE VARIETY	FIRST PLANTING	SUCCESSIVE PLANTINGS Weeks Apart	AMOUNT OR NUMBER FOR 50' ROW	DIRECTIONS
Bean, bush, Green Pod	Early Bountiful	April 15	2-3: to Aug. 15	15"x 4"	In dryest soil available; cover first planting 1" deep.
Bean, bush, Wax	Rust Proof Golden Wax	April 20	2-3: to Aug. 15	18"x 4"	In dryest soil available; cover first planting 1" deep.
Bean, bush, Lima	Burpee Improved	April 20	2-3: to Aug. 15	18"x 4"	Plant with eye down, when there is prospect of several days' dry weather.
Bean, pole	Golden Cluster	May 1	3-4: to July 15	4"x 3"	Place poles before planting in rich hills; thin to best plants.
Bean, pole, Lima	Early Leviathan	April 25	June 15	4"x 3"	Eye down in slightly raised hills; thin to best two plants.
Beets, Ex. Early	Early Model	May 1	June 15	4"x 4"	First planting shallow, about 1/2" deep and extra thick.
Beets, main and winter	Delicious Dark Red	April 1	3-4: to Aug. 15	12"x 2"	In dry weather soak seeds; firm well; for winter use sow about three months before harvesting.
Brussels Sprouts	Detroit P	May 1	3-4: to Aug. 15	12"x 3"	Transplant at four to six weeks; same treatment as late cabbage; pinch out tops of stalks when "buttons" are formed.
Cabbage, Ex. Early	Copenhagen M'k't	April 1	June 1	24"x 18"	Set out well hardened off plants as soon as ground can be worked; fertilize in rows.
Cabbage, summer	Succession	May 1	June 1	30"x 18"	Light applications of nitrate of soda beneficial; to keep mature heads from splitting, pull enough to loosen roots in soil.
Cabbage, late	Danish Ball Head	July 1	July 15	30"x 18"	Transplant from seed sown June 1st; use water in bottoms of holes if soil is dry; firm well.
Carrots, Ex. Early	Early Scarlet Horn	April 15	3-4: to Aug. 15	12"x 1"	Select rich, deep soil to get smooth roots; for storing plant about 90 days before harvesting time.
Carrots, main and winter	Early Snowball	May 15	July 15	12"x 2"	Enrich rows; protect from cutworms; plenty of water when heading.
Cauliflower, spring and fall	Early Self-Blanching	April 10	4: to July 10	24"x 6"	Enrich rows; plenty of water; hill up to keep stalks upright; blanch two weeks before using.
Celery, Early	Golden Queen	June 1	July 15	36"x 6"	Sow seeds six to eight weeks before transplanting; hill up; store in cellar for winter.
Celery, late	Winter Queen	June 1	July 15	3"x 2"	First planting in dry soil; cover only 1" deep; give protected sunny exposure if possible.
Corn, Early	Golden Bantam	May 1	June 15	3"x 2"	Thin to 3 or 4 stalks in hill; plant 3" deep in dry weather, cultivate shallow.
Corn, main crop	Country Gentleman	May 1	June 15	3"x 4"	Enrich hills; thin to 3 or 4 plants; protect from striped beetle.
Cucumber, for slicing, etc.	Davis Perfect	June 1	July 1	30"x 24"	Enrich hills; give plenty of water; protect from potato bugs.
Cucumber, for pickling	Ever-bearing	June 1	July 1	12"x 12"	Culture same as for lettuce save that leaves should be tied up to blanch for use.
Egg-plant	Black Beauty	June 1	4: to Aug. 1	15"x 4"	Treatment similar to turnips; thin out as soon as possible; begin to use while small; 1" or so in diameter.
Endive	Giant Fringed	April 10	4: to June 15	15"x 4"	Transplant at size of lead pencil to deep, well enriched trenches; hill up to bleach.
Kohlrabi	White Vienna	April 15	3: to May 20	12"x 6"	Sow seed when plants are set out, and for succession plantings, thinning out early.
Leek	American Flag	April 10	3: to May 20	12"x 8"	Thin out early; for fall plant again July 15 to August 15.
Lettuce, loose leaf for spring	Grand Rapids	April 10	3: to May 20	12"x 8"	Give plenty of water; top-dress with nitrate of soda; thin out as soon as possible.
Lettuce, "Butter Head," for spring and fall	Big Boston	May 15	June 15	12"x 10"	Enrich hills with old compost and wood ashes; add sand in heavy soil; protect from striped beetle.
Lettuce, "Crisp Head," for summer	Brittle Ice	May 15	June 15	6"x 4"	Same as for musk melons; pinch out tips of runners at 5' or 6'.
Melons, musk	Netted Gem	May 1	June 15	4"x 3"	Give warm, rich soil; nitrate of soda during early growth; treat like corn; use pods while young.
Melons, musk, bush	Henderson's Bush	May 1	June 15	3"x 15"	Mark out drill; insert up to neck.
Melons, water	Halbert Honey	May 15	June 15	12"x 2"	Keep clean; top-dress with nitrate of soda; do not thin until well along.
Okra "sets"	White Velvet	April 1	June 15	12"x 3"	Soak seed twenty-four hours; cover very lightly; thin out early.
Onions, globe	Yellow Danvers	April 10	June 15	12"x 4"	Cover first planting about 1" deep; sow only a small quantity as wrinkled variety is better flavored.
Onion, large Spanish	Gigantic Gibraltar	April 15	3: to May 20	36"x 2"	Make later plantings in trench, filling in gradually as vines grow; plant early varieties July 20 to August 10 for fall crop.
Parsley	Emerald Curled	April 1	June 15	24"x 15"	Same as for egg-plant; use good strong potted plants for both to get best results.
Peas, smooth	Alaska	April 10	3: to May 20	18"x 3"	Top-dress with nitrate of soda during early growth.
Peas, Early, wrinkled	Grass (Little Marvel Dwarf)	April 10	3: to June 15	28"x 3"	Select deep, loose soil or trench before planting to get good smooth roots.
Peas, wrinkled, main crop	Alderman (British Wonder Dwarf)	April 15	3: to June 15	6"x 6"	For earliest results sprout four weeks in sunlight before planting.
Peppers, large fruited	Ruby King	May 15	June 15	12"x 1"	Plant in rich hills; if space is limited, put near edge of garden, or train where vines can run along fence.
Peppers, small fruited	Coral Gem	May 15	June 15	12"x 2"	Make frequent small sowings; work lime plaster soot, or wood ashes into row; take up and destroy roots not used.
Parsnips	Improved Hollow Crown	April 10	2: to Sept. 15	12"x 2"	Thin out early; plant in finely prepared soil to get good, smooth roots.
Potatoes	Irish Cobbler	April 10	3: to Aug. 1	12"x 3"	Roots for storing for winter should not be planted until quite late, as they are better both in keeping and eating qualities when not overgrown.
Pumpkin	Quaker Pie	May 15	4: to Aug. 15	15"x 4"	Excellent for storing for winter; culture similar to turnip; late planting makes best quality roots.
Radish, Early	Crimson Giant Globe	April 1	4: to Sept. 1	15"x 2"	Be careful to get seed thick enough; sow in deep, fine soil to get smooth roots.
Radish, summer	Chartiers	May 1	June 1	5"x 4"	Sow in rich soil; thin first to 2" apart; second thinning may be used for table; apply nitrate of soda.
Radish, winter	White Chinese	June 15	June 15	6"x 6"	For bush 4"x3"; enrich hills; thin to two or three plants; protect from bugs.
Rutabaga	Golden Necklace	May 1	June 1	18"x 8"	Thin to two plants when vines begin to crowd; watch for borers; protect from squash bugs.
Salsify	Sandwich Island	April 10	June 15	4"x 2"	Sow about half as thick as beets; thin out as soon as well started; cut leaves in gathering 3" or so above crown.
Spinach	Victoria	April 1	June 1	4"x 30"	Enrich hills; use plant support or stake; keep suckers trimmed off; apply nitrate of soda.
Squash, summer	Golden Summer Crookneck	May 1	June 1	12"x 3"	Use poison bait for cutworms before setting out; thin fruit clusters if fruit rot appears.
Squash, winter	Hubbard	May 15	4: to Sept. 1	12"x 4"	Sow thinly and thin out as soon as possible; avoid fresh manure and too rich soil.
Swiss chard	Lucullus	April 10	Aug. 1		For winter use do not sow too early, two to three months before harvesting, according to variety.
Tomato, Early	Bonnie Best (Chalk's Jewel)	May 1			
Tomato, main crop	Stone	May 15			
Turnip, summer	Amber Globe	April 10			
Turnip, winter	White Globe	June 1			

NOTES ON VEGETABLES

"p"=plants from frames or seed-beds.
First figure under Directions indicates distance between rows; second between plants in row after thinning, or between hills.
Drills are continuous rows, in which the seeds are sown near together, and the plants even after thinning stand at irregular distances, usually touching.
Rows have the plants at regular distances, but so near together that machine cultivation is attempted only between the rows.
Hills, which are usually especially enriched before planting, are isolated groups or clusters of plants, generally about equidistant—3' or more—each way.
Thinning consists in pulling out the surplus seedlings as soon as most of the seeds are up.
Hilling is drawing the soil up toward the roots or stems; often overdone—usually a wide, slight hill is the best.
Blanching is necessary to prepare some plants such as celery and endive, for eating; excluding the light, bank

NOTES ON CONTROL OF INSECTS AND DISEASES (See page 46 for tables).

INSECTS belong to four general classes: "chewing" insects, which eat portions of the plant, usually leaves; "sucking" insects, which live on the plant's juices; "borers," which work inside the stems or fruits; and "underground" grubs or worms.
For chewing insects arsenate of lead, a stomach poison, is the standard control; others are Paris green and heliothene. For sucking insects, nicotine sulphate, a concentrated liquid extract of tobacco, is the standard control; others are kerosene emulsion, and, for fruits, lime sulphur and miscible oil. For borers, destruction of the individuals, and destruction of adults, moths or flies, or prevention of egg-laying, must be resorted to. For underground insects, tobacco or lime, or special preparations, washed into the soil; and prevention of egg-laying. DISEASES of most kinds are propagated by spores; remedies are unsuccessful, but Bordeaux mixture is the standard preventative; begin applications before disease appears, or as soon as suspected, and keep all growth covered. Ammoniacal copper carbonate is used where the marking of the foliage left by Bordeaux mixture is objectionable. If it is necessary to decide on using them immediately when they are first sighted.

FLOWER	HEIGHT	COLOR	SEASON OF BLOOM	DIRECTIONS
For Beds and Masses				
Asters (A)	18"-30"	Various	July-Sept.	Protect from aster beetle by hand picking and Paris green.
Begonias (TP)	12"-18"	White, pink, red	May-Sept.	Very free and continuous flowering; bushy, compact growth. (P)
Cosmos (A)	2' - 8'	White, pink, red	August to frost	Colors rather crude but brilliant; good for backgrounds or massing against buildings, fences, evergreens, etc. (P)
Celosia (A)	18"-4'	Red, yellow	June-Sept.	Flowers freely until frost; give good color; fragrant. (P)
Heliotrope (P)	12"-24"	Blue and white	May-Sept.	Especially good for new or poor soil; for best flowers soil must be not too rich.
Marigold (A)	10"-36"	Pale gold to orange	July to frost	For immediate show get old plants; but for a long season new plants just beginning to bloom. (P)
Nasturtium (A)	12"-24"	Various	May to frost	Use named varieties, or keep in seed bed until first blossom opens before transplanting. (S B)
Pansies (A)	6"	White to claret mixed	July to frost	Unsurpassed, brilliant and harmonizing colors; many fine named varieties. (S B)
Petunia (A)	12"-36"	Various, brilliant	July to frost	Unequalled for brilliant massed effect; select variety for height wanted; much back for stocky plants. (P)
Phlox Drummondii (A)	12"-36"	Scarlet	August to frost	Most brilliant for low, spreading, carpet growth; flowers to hard frost. (P or S B)
Salvia (A)	6"-9"	Various	July to frost	
Verbena (A)				
For Edges and Borders				
Ageratum (A)	12"	Blue, white	June to frost	Compact, upright growth; will not spread out over walk. (P or S)
Alyssum, Sweet (A)	6"-12"	White, lilac	May to frost	Trailing or spreading; very graceful in habit. (P or S)
Bellis perennis (HHP)	6"-8"	White, pink, red	April-July	Neat, compact, cheery; wonderful number of little daisy-like flowers. (P)
Marigold (Dwf. Srt.) (A)	9"-12"	Orange and yellow	June to frost	Dwarf, sort in named varieties very effective for narrow borders. (P or S B)
Mossotis (B)	6"-12"	Blue, white	April-July	Rest blue-edging plants, especially daisy. (P)
Zinnia (Dwf. Srt.) (A)	12"-18"	Crimson, yellow and white	June to frost	Neat, upright, formal effect; dwarf varieties, selected colors.
For Shady Places				
Antirrhinum (P)	24"	White, red, yellow	July-Sept.	Select dwarf, medium or tall varieties as wanted; stake tall sorts loosely.
Aquilegia (P)	12"-36"	White, orange, blue	June-July	Graceful, open habit of growth; fine in combination with other things.
Campanula (P)	18"-30"	Pink, blue, white	June-August	Winter over plants of started early in heat; avoid crowding. (P)
Delphinium (HP)	3' - 4'	Blue, white	July-Sept.	Geminate in garden for bloom; started in heat will bloom first season. (P)
Digitalis (B)	12"-36"	White, pink, purple	June	Easily grown in old favorites; wintered over plants or started early in heat. (P)
Mossotis (B)	6"-12"	Blue, white	April-July	See above; good for moist situations; some fine new varieties. (P)
Pansy (A)	6"-12"	Various, yellow, orange	May to frost	Succeeds in partial shade, but blooms more freely in sunshine.
Poppy (P)	12"-18"	White, yellow, orange	May-Sept.	Long season of bloom; one of the most satisfactory of all; start early. (S)
Schizanthus (A)	24"-18"	Mixed, yellow to lilac	July-August	Exceptionally gay, free flowering dwarf sorts or borders. (S)
Torenia (A)	8"-15"	Blue, white	July-Sept.	Trailing, especially fine for porch hanging baskets, etc.
For Cutting				
Arctotis (A)	12"-15"	Rich, various	June to frost	Easily grown, give sunny situation; start in heat or outdoors. (P or S)
Asters (A)	18"-30"	Various	July-Sept.	Protect from beetles; disbud for finest flowers. (S or P)
Calliopsis (A)	12"-18"	Yellow (orange brown)	June-Sept.	Give plenty of sun; keep dead flowers cut off. (S)
Chrysanthemum (A)	12"-36"	White, pink, red	August-October	Very slow; pinch back to get bushy plants. (P or S B)
Cosmos (A)	2' - 8'	White, pink, red	August to frost	See above; start in heat for early cutting. (P or S)
Dianthus (A)	10"-18"	White to rose	June-Sept.	Exceptionally easy growth; brilliant, rich colors; avoid crowding. (S)
Gypsophila (A)	12"-24"	White, yellow, orange	May-Sept.	Unexcelled for use with other cut flowers; small sowing every month.
Poppy (P)	12"-18"	White, rose, purple, white	June-Sept.	Cut opening buds; keep old flowers cleaned off; avoid crowded plants. (S)
Salpiglossis (A)	12"-24"	Crimson, rose, purple, blue, white	July to frost	For stronger flowering plants start early; use selected colors. (P or S)
Scabiosa (P)	15"-30"	White, black-purple, blue, rose	August-Sept.	Old favorite but one of the most satisfactory; try improved named varieties; avoid crowding; cut flowers.
Sunflower (A)	3' - 7'	Yellow	August to frost	Great variety; continuous supply; sunny position; keep cut.
Shasta Daisies	15"-18"	White	August to frost	One of the longest keeping, especially good; wintered over plants, or start early; seeds.
For Fragrance (Cutting)				
Centaurea (Sweet Sultan) (A)	24"-30"	Rose, lavender	June-Sept.	Make second sowing; favorite old "Sweet Sultan."
Heliotrope (P)	12"-24"	Purple, white	May-Sept.	See above; select most fragrant plants for stock. (P)
Marguerite Carnations (P)	12"-18"	Blue to white	July to frost	Bloom early from seed; give good stand; selected colors. (S B)
Mignonette (A)	12"-18"	White, yellow, pink, red	July to frost	Sow every month or so for succession; cool, moist soil. (S or S B)
Stevia (TP)	24"-24"	Pale gold to orange	June-Sept.	Free blooming, one of the purest whites. (S or S B)
Stocks (A)	12"-24"	Lavender, pink, yellow, scarlet	June-Sept.	Give rich soil; start indoors or in seed bed, and transplant twice to select double flowers only. (P or S B)
Sweet Peas (A)	2' - 6'	White, rose, pink, crimson, mauve	June-Sept.	Plant deep, avoid overcrowding; water abundantly; keep old flowers picked. (P and S)
Wallflower (B)	12"-30"	Brown (yellow)	July-Sept.	Winter over or start early in heat to get flowers first season. (P)
For Climbing				
Canarybird Vine (A)	10'	Canary yellow	June to frost	Fringed, bright yellow flowers, very unique; rapid grower. (P or S)
Cardinal Climber (A)	30'	Scarlet	July to frost	New rapid grower; unparalleled for brilliant display; soak or file seeds. (P or S)
Dolichos (Hyacinth Bean) (TA)	10'	Purple, white	Mid-July to frost	Easily grown; very free flowering; good for screening. (S)
Moonflower (TA)	15'-30'	White, blue	August to frost	Unique and fragrant; some new good varieties; start early for best results. (P or S)
Morning-glory (TA)	15'	Mixed	June to frost	Old favorite but greatly improved; for covering fences, rubbish heaps, etc., as well as climbing.
Nasturtium (A)	6'-10'	Crimson, maroon, orange, white, rose	June to frost	See above. Use self-colors for most striking effects.
NOTES: "A" annual; "B" biennial; "P" perennial; "HHP," "HHP," and "TP" mean respectively hardy perennial, half hardy perennial, and tender perennial.				
Annuals flower, mature, seed, and die in a single season.				
Biennials become established the first season, and flower and seed the next spring or summer; by starting early or under glass, most of them flower the same year, like annuals.				
Perennials flower and seed year after year; by early sowing many of them will flower the first season.				
"Hardy" annuals, biennials, or perennials are those capable of resisting cold, and may be planted or sown with the hardy vegetables.				
"Tender" annuals, biennials, or perennials require warm weather, and should not be planted until "corn-planting time."				
"Half-hardy" biennials and perennials are those capable of resisting frost, but not of surviving the winter without protection.				
In the Directions: S—sow seed in the open, where plants will bloom. S B—sow plants in seed bed or border, to transplant to permanent positions. P—plants from frames, greenhouses, or florists.				

CONTROL OF INSECTS AND DISEASES

INSECT OR DISEASE	IDENTIFICATION	WHEN TO LOOK FOR	ATTACKS	CONTROL
In the Vegetable Garden				
Aphis or "plant louse"	Small, green or black, soft bodied flies about 1/16" long, congregating in large numbers.	Throughout season, especially on half-grown plants and in dry weather; on under side of leaves.	Cabbage, cauliflower, lettuce, peas, etc.	Contact spray, two or three applications, at intervals of a week or ten days, especially on under side of foliage, and on folding leaves.
Asparagus beetle	Active, yellow spotted beetle, 1/2" long.	June-Aug., especially on new growth.	Asparagus foliage.	Arsenate of lead; cut and burn stalks in fall.
Caterpillar, green	Smooth, light green caterpillar, 1/2"-1" long; small white or yellow butterflies.	Late May until September, two broods.	Cabbage, cauliflower, etc.	Arsenate of lead or Paris green before form; later, hellebore.
Cucumber beetle	Small, very active, black and yellow striped beetle, 1/2" or so long.	Through season, especially as vines begin to run, and in dry weather.	Cucumbers, melons and vine crops.	Arsenate of lead with Bordeaux mixture. Spray young plants and sprinkle with tobacco dust before planting, and give protection with 4" paper bands 1" in soil; hand picking.
Cut-worms	Sluggish, fat, brown soil worm, 3/4" to 2" long with stripe along side; works at night.	Through season, mostly April to June, cutting off young plants and seedlings. Dig around cut-off plants.	Especially cabbage, cauliflower and tomato plants.	Poison bait before sprinking, and give protection with 4" paper bands 1" in soil; hand picking.
Flea beetle	Minute, black, active jumping beetle.	Mostly in May and June on seedlings; leaves punctured.	Potatoes, tomato, cabbage group, turnips.	Bordeaux mixture and arsenate of lead; to dust on seedlings.
Thrip	Very minute, cause yellowish appearance or twisted leaves.	Throughout season, especially on neglected or backward plants.	Onions and leeks.	Thorough, forceful spraying with kerosene solution or with nicotine.
Melon louse	Small green aphid. See Aphis.	Throughout season, usually first in May or June; leaves curl up abnormally.	Melons, cucumbers and other cucurbits; strawberries.	Carefully remove, bury or burn infested of plants; spray as for aphid.
Onion thrip	Minute, active, whitish insect barely visible to the naked eye, lodging especially down between leaves.	Through season, especially June to August; onion tops twisted and curled; prematurely yellow.	Onions and leeks.	Nicotine spray forcibly applied; kerosene solution.
Potato beetle	Common striped beetle or bug 1/2" long.	Through season, first on earliest sprouting potatoes; three broods.	Potatoes, egg-plants, tomatoes.	Spray or dust with arsenate of lead or green; hand picked from egg-plant.
Root maggot	Small white worm or grub 1/4" to 1/2" long.	Through season; first indication wilting of plants without apparent cause.	Onions, cabbage, cauliflower, turnips, etc.	Protect cabbage group with tarred paper gutter; poison paper for adult flies before laying; burn infested plants; nitrate of soda to stimulate growth.
Squash bug ("stink" bug)	Dull black, flat, very active beetle with long legs, often moving backwards or sideways when disturbed; 1/4" to 3/4" long.	Usually appears first late in June, remaining until cold weather. Young hatched from brown eggs on under side of leaves; resemble large aphid.	Squash, pumpkins and other vine crops.	Trap old bugs under shingles and destroy; young with nicotine or kerosene emulsion; screen young plants.
White grub	Large, soft, white, repulsive grub or worm, feeding on roots under ground; 1/2" to 1 1/4" long.	Through season; especially numerous in newly plowed sod ground and moist places.	Strawberries especially; also corn, potatoes, etc.	Plowing late in fall; summer following; trap adults (May beetles); destroying grubs and setting affected plants.
White fly	Minute, tenacious, white winged fly, congregating in large numbers until disturbed.	Through warm season, especially under dry or overcrowded conditions; prevalent in frames or greenhouses.	Tomato, cucumber, etc.	Spray with nicotine or kerosene emulsion; young, which resemble lice on under side of leaves; tobacco dust as a repellent.
Tomato worm	Large, green horned worm, often several inches long.	From mid-summer to early fall; strips foliage clean, conspicuous inroads.	Tomato and tobacco mostly.	Arsenate of lead; hand picking into can or and late fall plowing.
Blight	Usually a yellowing or spotting of the leaves, progressing very rapidly.	Throughout season, especially in muggy weather and low, closed places.	Potatoes, beans, celery, cucumber, etc.	Spray with Bordeaux at or before first sign; repeat frequently to keep all growth covered.
Mildew	Whitish coating or spotting of the foliage, spreading rapidly.	Favoring conditions same as for blight; also crowded foliage.	Cucumbers, melons, lima beans, etc.	Spray with Bordeaux every week or ten days.
Leaf spot or rot	Spots in leaves, stems, or fruit turning brown or black.	Throughout season, especially in warm weather after rainy spells.	Tomatoes, beans and many others.	Bordeaux mixture, removing surplus foliage in the case of fruits that touch.
Rust	"Rusting" or yellowing of foliage or stalks.	Through season, especially late June to August.	Various vegetables, especially celery, lettuce, asparagus.	Avoid working when foliage is wet; successive sprayings with Bordeaux. On maturing use ammoniacal solution of copper carbonate.
In the Fruit Garden				
Apple aphid	Bright green aphid.	Throughout season, especially on the sides of new leaves.	Apples, peaches, plums.	Dormant spray before leaves come out; nicotine spray on young foliage.
Blister mite	Small mite causing leaf blisters turning from light green to red and brown.	Throughout season.	Pear and apple.	Strong miscible oil or kerosene emulsion just before leaves come out and again in late fall.
Bud moth	Light brown caterpillar, head and legs dark.	Early in spring before buds open.	Especially apple buds.	Arsenate of lead when leaves appear, before open.
Caterpillar, tent	Striped caterpillars in large masses in webs or "tents."	Early in spring; "tents" at first inconspicuous, gradually enlarged.	Apple, cherry, and other trees.	Destroy egg masses in winter; wipe out tents as soon as visible with kerosene smudge in late fall.
Canker worm	A "measuring worm," 1" or more in length.	May and June.	Apple.	Arsenate of lead, when worms appear; band in March or early April.
Coddling moth	The "mother" of wormy apples; moth is small and chocolate colored; worm hatches on the outside, usually 1 1/2" long, and eats in; about 1 1/2" long.	In spring and early summer.	Apple.	Spray with arsenate of lead just before petals before calyx closes; ten days later and again about four weeks; band trunks during July.
Curculio	Small, grayish beetle, 3/16" to about 1/4" long. Back mottled black and white; has a conspicuous "snout."	In early summer when fruits are beginning to form; another generation in August.	Injures young fruits by puncturing them to eat and lay eggs; apples, peach, plum.	Spray with lime sulphur and strong arsenate of lead; for best results jar trees every cooling, and catch beetles on sheet spread below.
Currant worm	Green worm with black spots about 1" long.	Before blossoms open, usually first on lower leaves.	Currant and gooseberry.	Spray with arsenate of lead until fruit after that, hellebore.
Leaf hopper	Small, slim, yellowish hoppers with blunt heads.	Through season, indicated by leaves turning brown and drying up; "hoppers" working on the under side.	Apple and grapes.	Spray under side of leaves with strong kerosene emulsion.
Scale, San José	Minute, yellowish, sucking insects covered with small shell or scale, the size of a pin-head; presence indicated by gray scurvy appearance of bark, and minute red rimmed spots on fruit.	Throughout season; multiplies with extraordinary rapidity.	Apple and other fruit trees.	Dormant sprays in early spring or fall, using sulphur, miscible oil or kerosene emulsion.
Scale, oyster shell	Dark brown scale like elongated oyster shell about 1/8" in length, the young resembling active whitish lice.	Throughout season, young hatching in May or early June.	Apple and other fruit trees.	Same as for San José; also nicotine or kerosene emulsion as soon as young hatch.
Scab, apple	Causes dark colored spots on leaves or fruit.	Throughout season, spreads most during spring.	Apple and pear.	Spray with lime sulphur before blossoms after blossoms fall, and two weeks later leaves and twigs in fall.
Rot, black	Fruits turn purplish brown and become shriveled.	Summer; especially after wet weather and where tall weeds or grass are left near the vines.	Grapes.	Spray with Bordeaux till mid-July; the moniacal solution copper carbonate; for vines bunches may be covered with paper; dormant spray with lime sulphur or miscible oil; gather fallen fruit and burn.
In the Flower Garden				
Aphis (plant louse)	Similar to those attacking vegetables described above.	See aphis above. Where foliage is thick, in axils of leaves or growing tips.	Roses, sweet peas and most soft-wooded plants.	Nicotine spray; kerosene emulsion.
Aster beetle	Active, long-legged beetle, 1/2" to 3/4" in length, eating flowers and foliage.	Appears in numbers, August and September.	Asters preferably, and some other flowers.	Strong arsenate of lead spray; knock bugs into morning into can of kerosene and water.
Mealy bug	Small, soft-bodied insect covered with small cotton-like specks.	Congregates in leaf axils throughout season; most likely on neglected plants in frames or on porches.	Soft-wooded plants and new growth on some hard-wooded plants such as fuchsias.	Nicotine spray or paint with strong kerosene emulsion, alcohol.
Rose beetle	Yellowish, active, crawling beetle 1/2" or more long with long hooked legs.	Throughout season, especially May to July, when plants are in bloom.	Roses mostly.	Arsenate of lead or Paris green extra hand picking into kerosene and water effective.
Mildew	Powdery, dirty white deposit on leaves.	Through season, especially after sudden changes in temperature.	Roses and some others.	Prune infected parts; dust with flowers sulphur; thin sufficiently for free circulation.
Leaf spot; rust	See above.	Throughout season.	Asters, carnations, etc.	Spray with Bordeaux. Keep new growth covered.



THE RESIDENCE OF J. J. HAMILTON, Esq., at FIELDSTON, NEW YORK

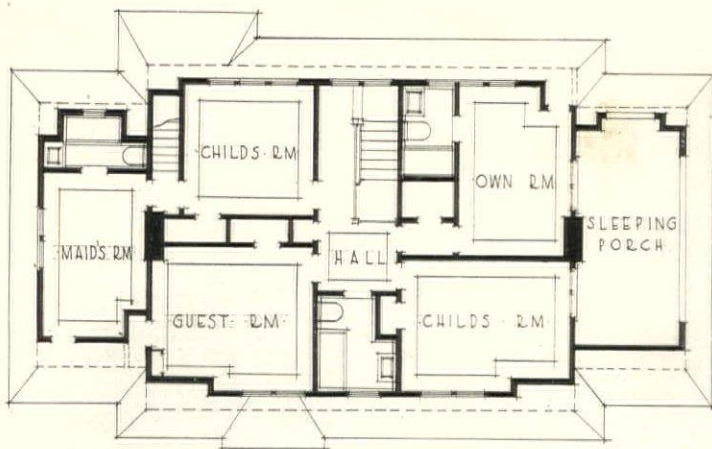
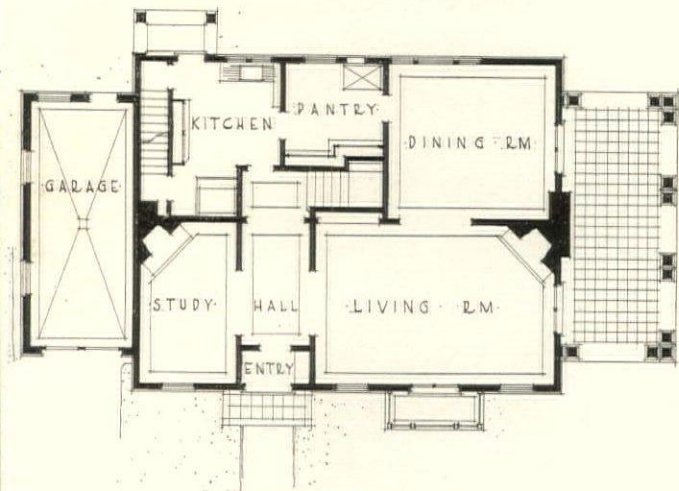
A Dutch Colonial House of Conventional Lines But Unusual Plan

DWIGHT JAMES BAUM, Architect

plan has avoided the usual al hall, the living-room, dining- and porch opening up together. large pantry serves also as ants' dining-room. Interior trim umwood; floors of oak; two fireplaces with Colonial els. Walls are sand finished

While symmetrical, the exterior shows the entrance off center. It is accented by a hood and lattice sides. The south wing forms a large porch while the north gives a liberal size garage. Walls are cased in 12" wide red cedar siding painted white with color relief in the blinds, which are an unusual shade of green. The chimneys are of rough red brick—"black headers"—overburned brick that was discolored and twisted in the kilns

The second story reverts to the central hall type with four master's rooms and two baths. The owner's and child's rooms open into a large sleeping porch. The maid's room and bath connect with the kitchen by a private stairway. All of the woodwork is in white enamel





Color plays a great part in the new china, as in this set of Wedgwood porcelain. Borders are gaily colored flowers and edges are corrugated. Dinner plates, \$10 a dozen; entrée, \$7.50; tea cups and saucers, \$10 a dozen

MARCH ushers in the china and glass sales which are now held semi-annually by most of the large shops. At the same time, when the attention of the buying public is centered on articles of this character, many of the new patterns and interesting novelties of the season are launched in the open market.

One of the new features in glass, and one that is very smart, is the group illustrated at the upper right of this page. It shows the amber glass in combination with the Venetian blue stem and base. The stem of the glass is twisted from the blue flaring base up to the bowl section on both the champagne and goblet glasses, while the highball glasses stand on a blue flaring base. The amber glass seems to be particularly popular this season, and in combination with the blue it is very decorative on the table. The goblets come for \$35 per dozen, champagne glasses \$35 per dozen and the highball glasses are priced at \$20 per dozen.

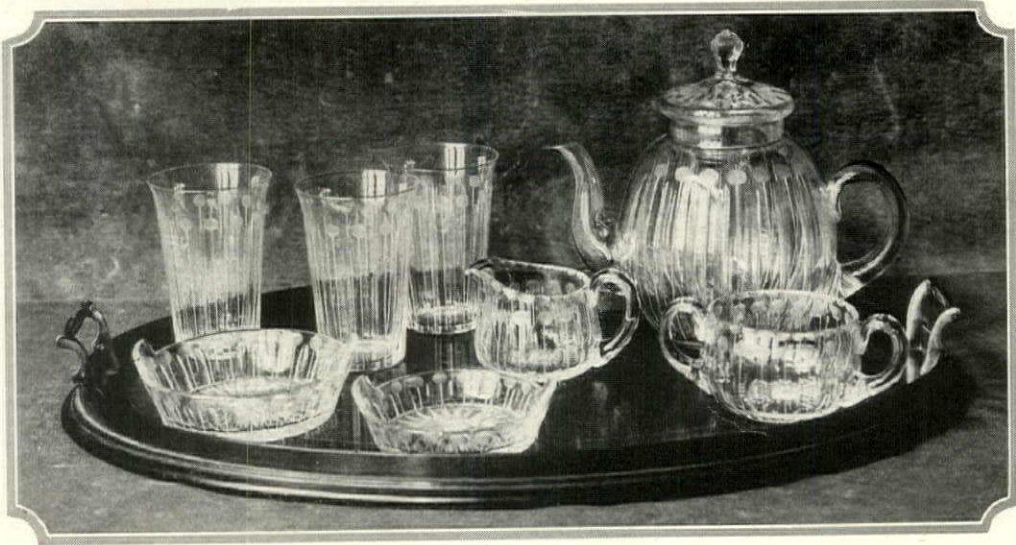
A very attractive iced tea set which suggests refreshing drinks in the warm summer

As it carries no cut work or any decoration, the little compote below finds its charm in the simplicity of its lines and the reasonableness of its price. \$1. 6" high



RICH COLOR IN THE NEW CHINA AND GLASS

The discerning housekeeper will find here valuable suggestions from the March sales of china and glass. For the names of the shops address HOUSE & GARDEN, 445 Fourth Avenue, New York City. Or purchases may be made through the Shopping Service at the same address.



The custom of serving tea from a glass teapot is coming more into vogue. It gives character to this iced tea set. The design is frosted and the lines are simple, suggesting use in a country house. The set consists of eight pieces and sells for \$23. A mahogany tray suitable for use with it has a glass top and brass handles. \$5.50



For the hall or living-room table comes a Japanese lily bowl on a wooden stand. Bowls may be had in yellow or green with fish flower holder. \$1.25 complete



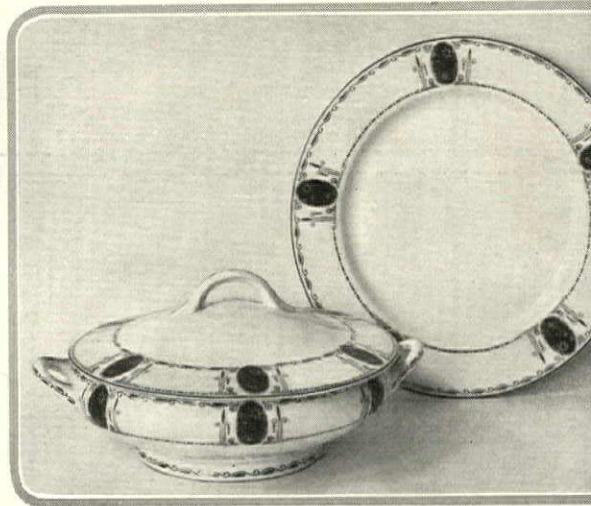
Imagine amber bowls in combination with Venetian blue stems and bases. Stems are twisted attractively; bases are flared. Goblets, \$35 a dozen; champagne glasses, \$35 a dozen; highball glasses, \$20 a dozen

afternoons is the one illustrated at the upper center of this page. It shows an unusual frosted design of balls on stems which decorate the glass at regular intervals. The method of serving tea from a glass teapot is attractive to many hostesses. The set consists of

pieces and sells for \$23. The mahogany tray, which is not included in the set, has a glass top and simply designed brass handles and may be had for \$5.50.

There have been many designs of mahogany jars brought forth, but one of the most attractive and unusual, and one especially suited for the summer home, is that illustrated at the top of page 49. The glass is very thin in both the bowl and saucer. The cover is of wood, hand painted with decorations of fruit and flowers. These decorations come in strawberries, oranges, pears, and the handle is a small fruit in natural coloring. A small glass spoon comes with this, the bowl of which and the end of the handle are of bright orange, to match the gaily decorated cover. It sells for \$3.

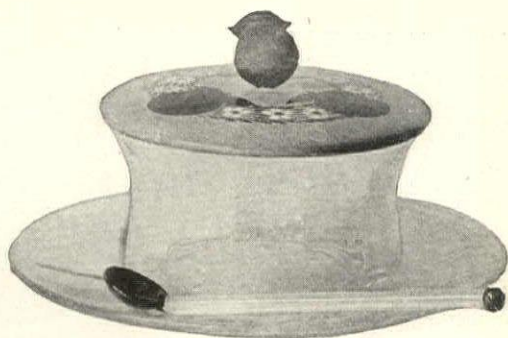
The country house china has ovals in black and dark green with red flanking designs; red, green and black bowls. Dinner set, \$57.20. Plates, \$6.75 doz.; covered dish,



An inexpensive piece of glass which is especially desirable for the home in the country is the fruit salad glass with plate made of American glass with a thumb design and a border of narrow ridges around both plate and the top of the glass. They come at \$5 per dozen.

Compotes are always useful, and the one shown at the lower left of page 48, made of glass, is most attractive in its simplicity, as it carries no cut work or decoration of any kind, but is gracefully molded with a short rim and cover. It particularly appeals to the hostess, as it is very inexpensive and exceptionally good value for the price of \$1.66" high over all.

At this time of the season the woman wants to think and plan for her country home and is desirous of having smart as well as new designs in china. Color plays a great part in the china which is brought out this season, and several illustrations of this are given on these pages. At the upper left of page 48 is an exceptionally smart design of Copeland china. The rim of the plate has a corrugated effect border with a small amount of coloring near the edge. Inside the rim is a wreath of gaily colored flowers. These flowers are also used to decorate the lower part of the cup and the saucer are decorated similar to the plate. This porcelain can be had in dinner sets as well as tea or breakfast sets. The dinner plates are \$10 a



Among the marmalade bowls is one of very thin glass and a wooden cover painted in fruit and flower decorations. The handle is a small fruit in natural colors. \$3



Copeland-Spode china comes in a Chinese pagoda design with Chippendale border. Colors are yellow, green, pink and blue. Dinner plates, \$20 doz.; entrée, \$15 doz.

The name of the breakfast sets is legion. But here is a new one of gay red, green and yellow birds and flowers on white ground. Set consists of eleven pieces; \$8.50. Dinner plates to match, \$5.50 doz.



domestic porcelain salad set consisting of bowl, plate and six individual plates, bears an old-fashioned design of roses. It would prove an enlivening addition to any table. \$6.50 complete



An inexpensive piece of glass, desirable for the home in the country, is a fruit salad glass with plate. It is of American make. A thumb design and narrow ridges decorate the border. \$4.75 a dozen



dozen; entrée, \$7.50 per dozen; tea cups and saucers, \$10 a dozen.

The gay colors in a new design are illustrated in the set shown at the bottom of page 49. For a country home there is nothing more attractive than this brightly colored breakfast set, which can also be had in a dinner set. The bird and conventional flowers are colored with green, red, blue, and yellow on a white ground. The line at the outer edges of this porcelain is of a bright green. The breakfast set consists of eleven pieces and sells for \$8.50. The dinner plates to match are \$5.50 a dozen.

The Chinese influence, which has been so popular in furniture, also finds its way in the attractive decorations of the china. The plate shown in the center of this page is of Copeland-Spode china with Chinese pagoda design and an attractive Chippendale border. The predominating color is a soft greenish yellow, pink and blue in small decorative spots. This plate especially appeals to the hostess who wishes to have something distinctive on her table, and, as the Chinese influence has shown itself so prominently, many women are anxious to display the new tendencies on the table as well as in other portions of the house. These dinner plates are \$20 a dozen, and the entrée plates are to be had for \$15 a dozen.

The bright and cool colorings which are so popular for the summertime are (Continued on page 84)

INTENSIVE METHODS AND THE VEGETABLE CRO

E. W. ELLISON

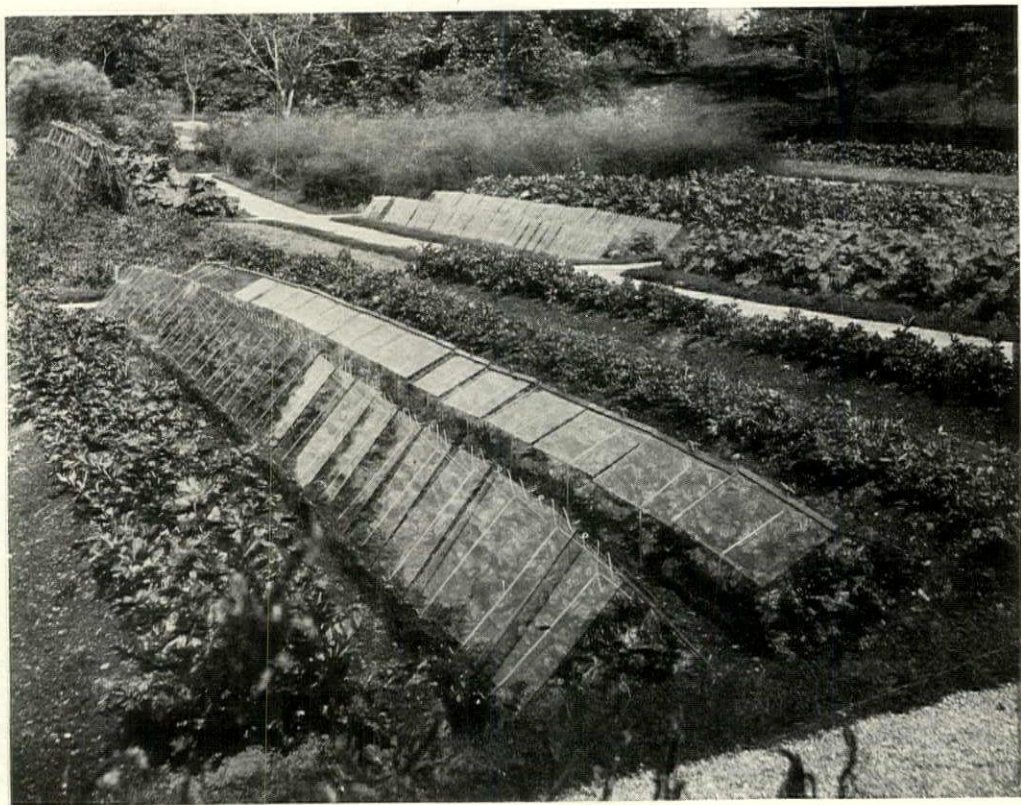
THE well-equipped and seasoned home gardener recognizes four methods of under-glass gardening. There are the greenhouse, the hotbed, the cold-frame and those ingenious devices of later introduction which carry the frame idea right into the very garden—the “junior” frames, the vegetable forcers and the little miniature greenhouses which in their various forms furnish protection to plants growing outdoors.

In order to simplify matters, under-glass gardening in greenhouses is not considered here. That is largely work requiring considerable knowledge and experience to be carried on successfully. I would rather focus the reader's attention upon the simpler, easier and less expensive methods to prove that under-glass gardening is highly desirable.

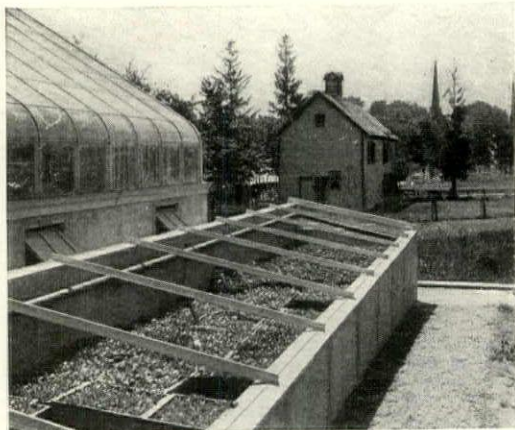
REASONS AND METHODS

Before going into details as to the intensive methods that may profitably be employed, let us consider the reasons for all under-glass gardening and the parts played by the different equipments in the working out of a “program.” We plant seeds in hotbeds, set out plants in cold-frames—in short, employ under-glass gardens for four distinct purposes: To get an early start; to grow crops out of season; to lengthen the growing season, and to hasten maturity.

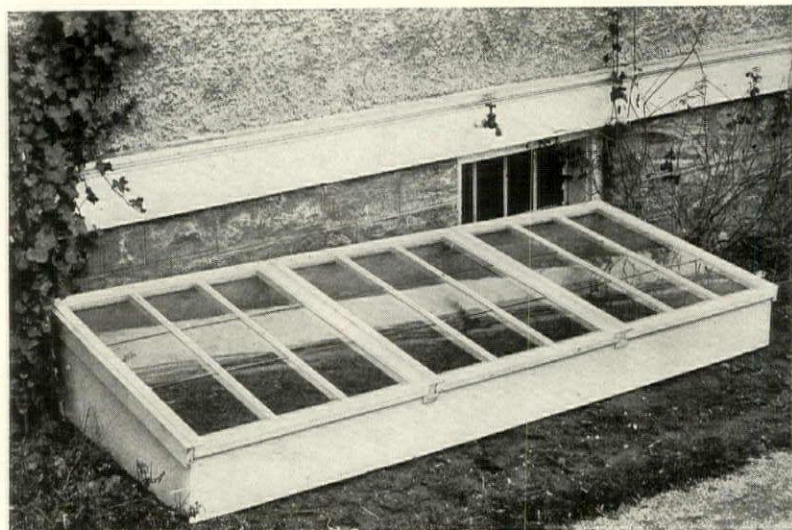
The first two require hotbeds and cold-frames, while the last two may be accomplished with the help of simpler devices. And, lest the newcomer in gardening be mystified by the term “hotbed,” let me state here that it is simply a wooden frame (or a number of them) which stands about



The little glass houses are inexpensive and especially useful in keeping untimely frosts from injuring the bearing plants



When it comes to hotbeds and cold-frames the possibilities are almost unlimited. Concrete is used here for greater endurance



A sheltered, sunny position is best. The faucet so conveniently located means less exertion at watering time



A typical hotbed, banked up on the outside to conserve the heat. Raising the sashes at midday provides necessary ventilation

Hotbeds, Cold-frames and Forcers

10" high in front and 18" high in back, leaving a space 3' wide across, covered with layers of glass called “sash.” Underneath this frame is a sub-frame which extends about 18" to the soil and is filled with fresh manure over which is spread soil about 6" deep. The fermentation of manure causes heat from which the whole thing gets the name “hotbed.” A cold-frame is a hotbed without the heat of manure, simply a boarded up wooden frame and covered with sash. It is especially good for transplanting seedlings.

In the hotbed, many of our popular vegetables, such as beets, carrots, radishes, etc., may be grown to maturity. A cold-frame is an almost necessary companion to the hotbed since it may be used to take care of plants between seasons, to keep them in a semi-dormant condition to say, while the more valuable hotbed is kept busy calling more plant life into existence. In this matter, hotbed and cold-frame supplement each other.

EARLY LETTUCE AND OTHER CROPS

To illustrate, let us say we want to get an early start with lettuce. Seeds may be sown by the middle of March and the young plants will be large enough for transplanting two weeks later. It is out of the question in most sections to transplant head-grown lettuce plants into the garden until April first. What to do? The answer is the cold-frame. In it, the plants will mature gradually, thrive slowly and may be transplanted when properly hardened.

To grow crops out of season, a hotbed is the best.

(Continued on page 78)



About every third year gooseberries should have a hard pruning to produce good wood



If you have not already done so, start sowing early things under glass

Pick your greenhouse beans when they are young and succulent



Rag soaked in kerosene makes a good torch for caterpillar nests



Some perennials, like chillea and pyrethrum, can be divided by hand



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

All nature seems at work. Slugs leave their lair—The bees are stirring—birds are on the wing—And Winter, slumbering in the open air, Wears on his smiling face a dream of Spring! And I, the while, the sole unbusy thing, Nor honey-make, nor pair, nor build, nor sing.—Coleridge.

This Kalendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations.

1. Sun rises, 6:39; sun sets, 5:49. Hotbeds should be started now if you want a first-class garden. A few sash and a load of fresh manure are all you need.

2. Sow in the hotbed or greenhouse: cabbage, cauliflower, celery, lettuce, tomatoes, egg-plant, peppers, leek, onions and parsley. These seedlings must be transplanted about 2" or 3" apart when large enough to handle.

3. For early flowers sow now in greenhouse or hotbed: asters, ageratum, balsam, begonia, calendula, carnation, celosia, chrysanthemum, Clarkia, larkspur, lantana, pansy, lobelia, petunia, salpiglossis, scabiosa, etc.

4. Inauguration Day. Propagate in the greenhouse or heated frames all kinds of bedding plants such as geranium, coleus, achyranthus, alternanthera; also flowering plants such as Stevia, ageratum, lantana, etc.

5. Boston Massacre, 1770. Make a practice of planting everything just as soon as it is received from the nursery, and do not let anything you are transplanting lie around exposed to the drying winds.

6. Planting of deciduous trees and shrubs should be attended to at an early date. Dig liberal sized holes, use plenty of good manure, firm the plants well with a tamp or your feet, and water well when growth begins.

7. Why not graft some desirable stock on your old fruit trees? This is an excellent time to get some good stock. Take strong, clean wood and label and bury it out-of-doors until the proper time for grafting arrives.

8. Do not neglect to go over all trees and shrubs carefully and burn or destroy all cocoons and caterpillar webs. They are visible now and no harm is done by burning the webs with a rag torch soaked in kerosene.

9. Why not plan some use for your greenhouse during summer? Some chrysanthemums, summer flowering bulbs, decorative plants for the house, or a crop of melons, can be started now and followed up by successional sowings.

10. Next to a greenhouse or hotbed, cold-frames are the greatest help to a successful garden, and they are useful throughout the year. By protecting with mats you can now sow early vegetables and flowers in a cold-frame.

11. It is perfectly safe now to finish up pruning of all kinds on roses, hydrangeas, fruit trees, foliage shrubs, etc. The one exception is spring-flowering shrubs such as lilac or spirea, which should be pruned after flowering.

12. When pruning, always make a practice of cutting clean. Do not under any circumstances split the ends of the shoots you sever, and do not leave any stubs or shoulders behind; these always rot back and cause trouble.

13. Perennials of all kinds should be planted now. Early planting means an early start, for the plants should come along with the weather. Late planting, on the other hand, means checked growth and ordinary results.

14. Most perennials should be divided every three or four years. If this is not done they get root-bound and cease flowering profusely. Dig the roots up and divide into four parts with a sharp spade.

15. Andrew Jackson born, 1767. Spray now for scale. Select good dry weather and be sure to cover every portion of the bark. If it rains within twenty-four hours after applying the solution, spray again.

16. Rhubarb, asparagus and horseradish roots can be set out now. Permanent root crops of this kind must have a rich, well prepared bed if you expect to get results that are up to the proper standard of excellence.

17. St. Patrick's Day. If you have no small fruits in your garden, you can order them now and set out just as soon as they come. Raspberries, blackberries, currants, gooseberries and strawberries are good sorts to have.

18. Grover Cleveland born, 1837. Start digging under the mulch on rose beds, shrubbery borders, etc. In doing this you may cut a few roots, but no harm will result. Get the manure well under the surface.

19. Rake the mulch from lawns with a wooden rake, which, however, will take up only the coarse litter. Dig up and sow any bare spots and make arrangements to roll the lawn just as soon as the frost is out of the ground.

20. This is an excellent time to sow grass seed. New lawns should be prepared by good, deep plowing, and small ones dug by hand. When graded, sow down, using plenty of best quality seed. Cheap mixtures contain weeds.

21. First day of spring. The litter can be removed from the strawberries and the winter mulch of manure should be dug under. It is also a good practice to top-dress the bed with bone meal, dug under with the manure.

22. Be sure and get pea brush before the foliage comes out. The best peas are tall growers and require staking. You can usually get some natural dahlia stakes at the same time, which will also answer for other tall flowers.

23. Start drying off in the greenhouse the winter flowering bulbous plants such as calla lilies, oxalis, cyclamen, etc. Save the spent bulbs of hyacinths, narcissus, etc., for planting out, though they won't amount to much the first season.

24. Longfellow died, 1882. Go over all vines, prune those that require it, remove all thin, weak shoots, and tie up the shoots you wish to save. Early flowering wistarias, etc., can be pruned after flowering.

25. This is the time to start propagating chrysanthemums. Put a large quantity in at one time, root the cuttings in sharp sand, and grow them cool. Seeds of the single types can be sown now and will flower this season.

26. Roses of all kinds delight in heavy pruning. Do not be afraid to cut your flowering roses, leaving two or three eyes of the new wood. Tea roses do not need quite such harsh pruning; climbing roses can be pruned after flowering.

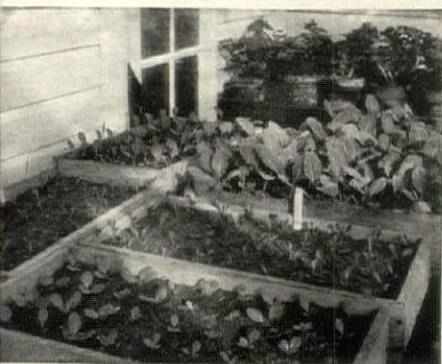
27. The asparagus bed needs attention. The manure mulch applied last fall should be dug under, with especial care to get it in deep. If the shoots were short last spring, hill up the earth over the row to give the desired length.

28. Remove the mulch from bulb beds, a task which must be done carefully, as you will usually find the bulbs started and it is an easy matter to break the young shoots. A manure fork is the best tool to use for this work.

29. Start removing protection from tender plants such as evergreens of all types, very tender tea roses, etc. Select dull, cloudy weather for this work, as the evergreens are liable to sun-scauld if the day is really bright.

30. The garden should be made ready now; plowing or good, deep hand digging are the usual customs. Use plenty of manure and get it down deep to attract the roots downward where they will be out of the way of droughts.

31. Start rooting dahlia cuttings by laying the bulbs in a frame and covering with ashes or sand. The cuttings can be rooted in the house or out-of-doors, if you protect them at night. Work up a good stock of your best varieties.



Vegetable seedlings should be dibbled off into a flat or cold-frame

Label seedlings carefully and keep the surface of the soil loose



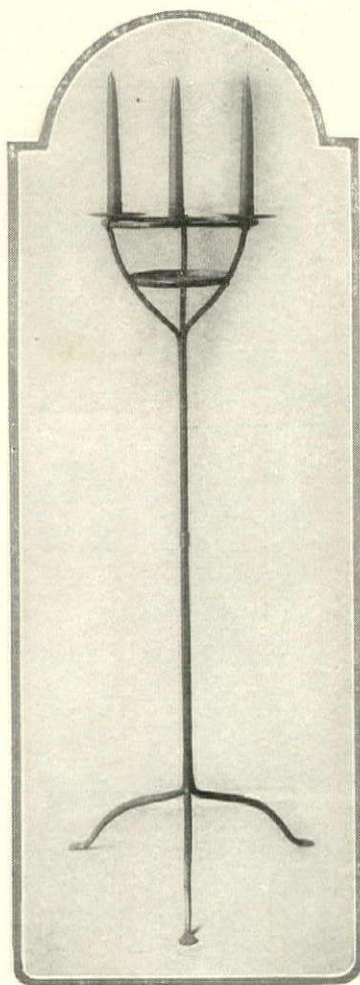
When transplanting trees, get as much of the root system as possible

Look over the young seedlings and small plants for insect pests



SEEN IN THE SHOPS

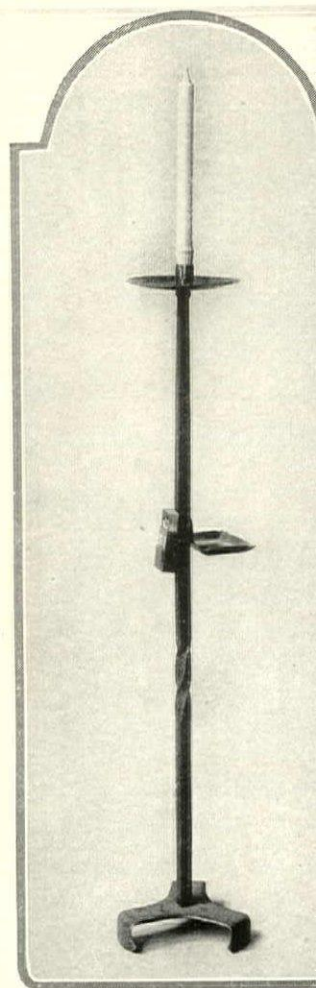
They're not just pictures—you can buy them. Our Shopping Service will be glad to do it for you, or the Information Service will furnish you with the names of the shops. Address either in care of HOUSE & GARDEN, 445 Fourth Avenue, New York



Candlelight on flowers gives a gracious suggestion of old-time cheer. You can get the effect with an iron candle-holder of Elizabethan design, with a stand for flowers below the candles. 45" high; \$15



Above, for porch, solarium or living-room, a wrought iron tripod with green Italian fruit or flower bowl; 40", \$20



A straight Puritan candlestick of hand-made wrought iron, with a clear white shaft of candle, and a combined ash-tray and match-holder that gives the whole thing away. It stands 40" high, and costs \$15



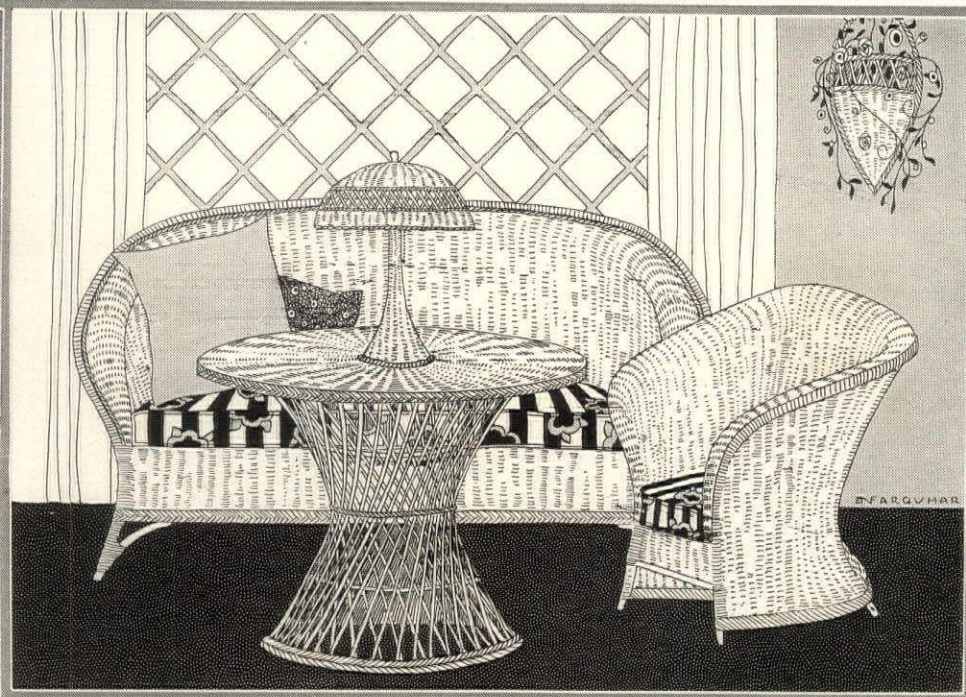
Left, a mahogany table, decorated in gold and dull colors, 20" high, \$23.50; mahogany chair, re-inforced back, \$14.75; wooden mirror, soft burnished green, colored decorations, 24" \$30; smaller, \$20; hammered copper flower bowl, 8½" diam., \$13; carved ebony stand, \$2

Mahogany spinet chair, tapestry seat, \$14. Mahogany desk, 20" by 30" by 36", \$75. Dull gilt wooden floor lamp, 5' 6", \$20; illuminated yellow parchment shade, 14", \$25. Philippine wastebasket, \$3.50; brass candlesticks, 10", \$6 pair; letterbox, Eastern designs, 10" by 10" by 6", \$45



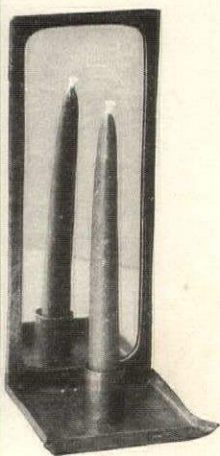


friendly little knocker
at lady's boudoir door,
good-luck horseshoe
painted iron with a
knot at the top,
a wreath of gay-
red flowers. Its mea-
sures are 1 9/16" by
2"; its cost, \$2.50

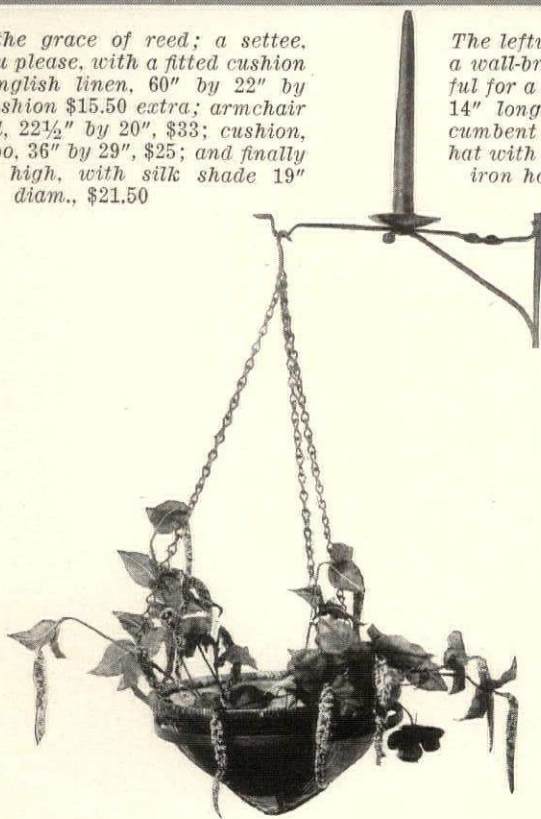


Embodying the grace of reed; a settee,
stained as you please, with a fitted cushion
of figured English linen, 60" by 22" by
22 1/2", \$60, cushion \$15.50 extra; armchair
to correspond, 22 1/2" by 20", \$33; cushion,
\$6; a table, too, 36" by 29", \$25; and finally
a lamp, 24" high, with silk shade 19"
diam., \$21.50

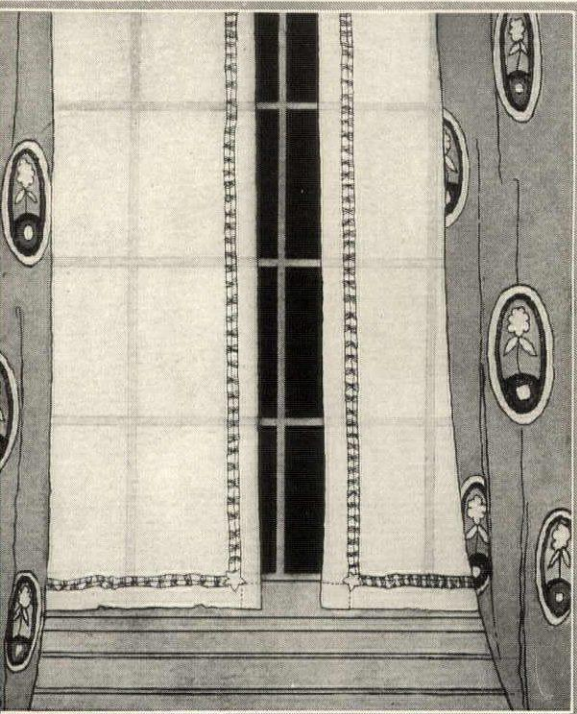
The leftward wrought-iron sconce is
a wall-bracket, too, and will be use-
ful for a fern or your best bird-cage.
14" long, \$2.50. The present in-
cumbent is a brightly colored Coolie
hat with a tin lining and a wrought-
iron holder, 14" in diameter, \$5



de the hospitable front
way a place might be
d for this hand-wrought
sconce with mirror re-
r. It stands 11" high and
may be had for \$5

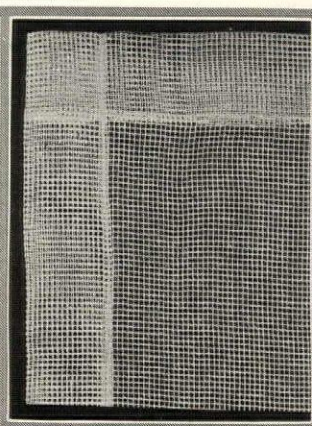
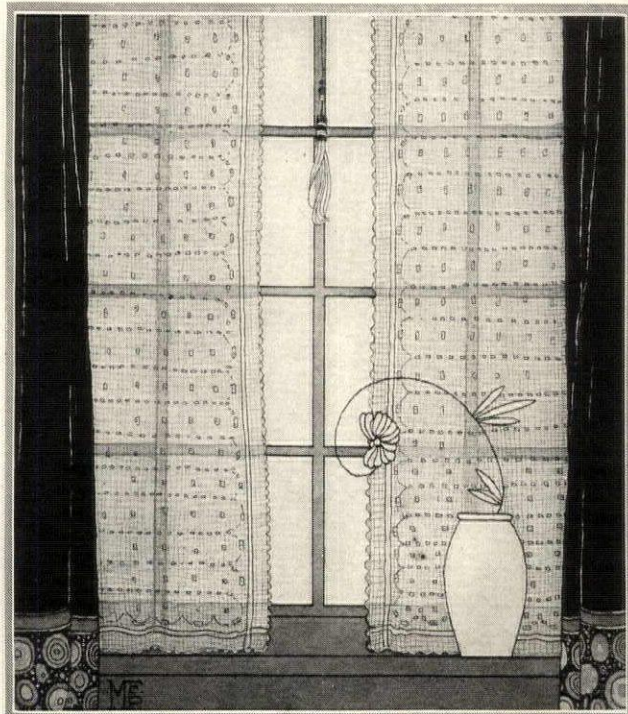


To withstand any assault, an
iron-bound log-basket, stained
in weathered or brown oak,
each slat firmly mortised
through the stout end-pieces.
2' long, 18" wide, \$16

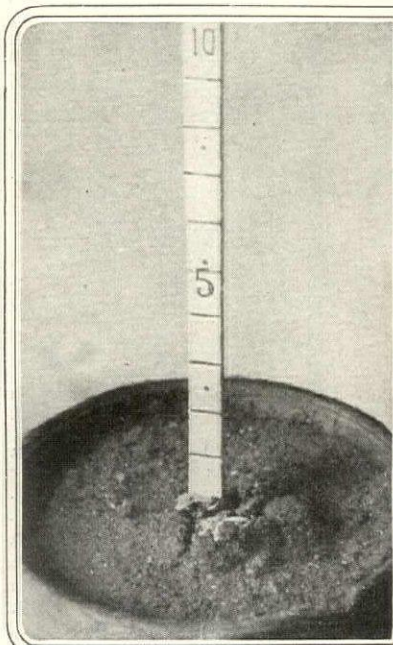


To close the eyes of the
house ever so little—the
thin undercurtain! These
are of hand-drawn mar-
quisette, and may be had
in ecru or white. They
are 32" wide and 2 1/2
yards long, and cost \$1.50
per pair

A particularly effective
fillet mesh distinguishes
these undercurtains,
which have a narrow lace
edging for their further
adornment. They come
in ivory tone only, and
are 37" wide and 2 1/2
yards long. \$2.35 per
pair

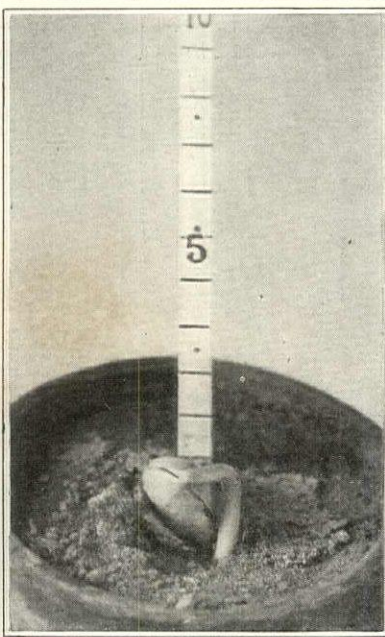


For "finish," both from
outside and inside point
of view, the plain net un-
dercurtain cannot be ex-
celled. The corner shown
above represents a set in
fillet pattern, in ivory tone
only; 2 1/2 yards long.
\$1.85 per pair

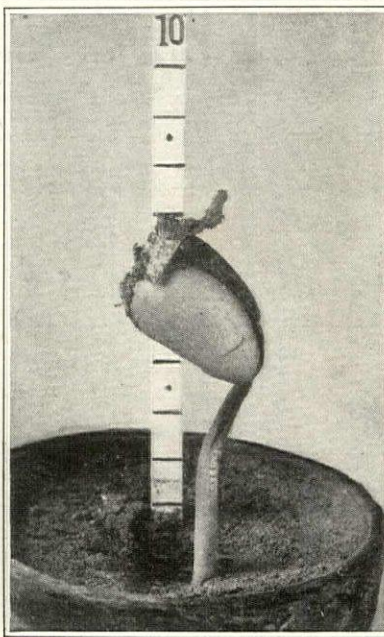


Photographs by Dr. E. Bade

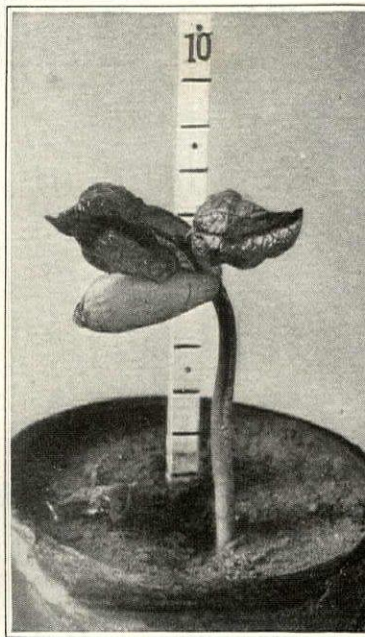
Germination of the bean is followed quickly by an upward thrust to the light above



Two days later the stem and the bean itself are visible and assume definite shape



Another forty-eight hours, and the halves of the bean show in their rôle of cotyledons



The next week sees no great increase in height, but the leaf development is marked

PLANT FOODS AND FEEDING

D. R. EDSON

Successful gardening means far more than the mere planting of seed or bulb and letting Nature do the rest. It is not enough to sow and trust; the underlying principles of plant growth must be understood and followed if the best results are to be obtained. The experienced gardener knows this, but few beginners do. For the inexperienced, then, Mr. Edson has written the series of which this article is the third, with the aim of setting down simply and understandably the whole story of the gardening game.—Editor.

THE mystery of seed germination we have already looked into. The seed itself, as was explained, supports the little plant for some time after it takes form.

Just when and how does the seedling become self-supporting?

Through the action of the roots, the mechanical construction of which we will look into presently, moisture is absorbed from the soil, and passes along the roots through the main stem, to be finally distributed to the leaves of the plant. Before it begins supporting itself there is an intermediate stage during which the plant-food stored up in the seed, root-stalk, bulb, or corm, contributes to its sustenance jointly with the roots. It is impossible to tell just when the plant becomes "weaned" and is able to do for itself. When digging potatoes in the fall, I have frequently found seed pieces, as sound and as plump

as they were on the day they were planted, still attached to a fully developed plant. Some seeds quickly disappear entirely; others, such as beans and squash, are shoved up above the ground by the growing plant and form the fleshy seed-leaves or cotyledons as shown in the photographs.

Before we undertake a study of the food of plants—which is, of course, one of the most important things about which the gardener must learn—we should get some insight into the way they use it. There are a number of very interesting facts, many of which have been discovered only after years of experimenting and scientific research, that should be remembered.

FACTS TO REMEMBER

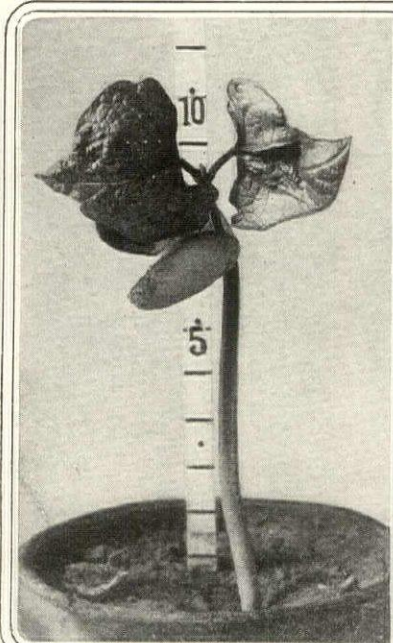
The first thing to fix in mind is that all the plant's food must be taken in liquid form—"in solution." This is the most important fact of all

to remember, because it affects the whole system of cultivation from beginning to end.

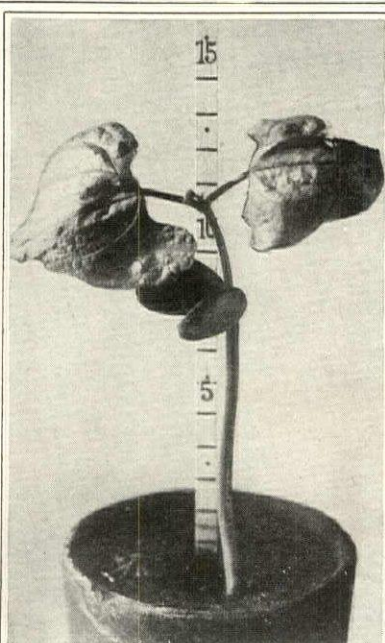
The next noticeable thing is that a plant "grows" up instead of down. Of course, it does not "swallow" at all in the true sense of the word, but its liquid food, after being taken in, travels upward, passing from the tiny root-hairs into the little roots on which they grow, then along the stem to the main roots and the stem, and finally distributed through the branches and the leaves.

The third particularly striking thing about plant anatomy is that the plant wears its stomach on the outside—that is, the food is not digested, as we might naturally suppose, in the roots, the stem, the branches, but merely passes through them to the leaves. There it is digested, or rather "elaborated"—that is, chemical changes correspond

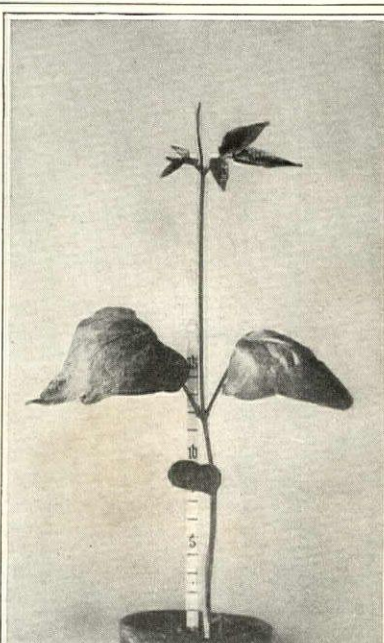
(Continued on page 68)



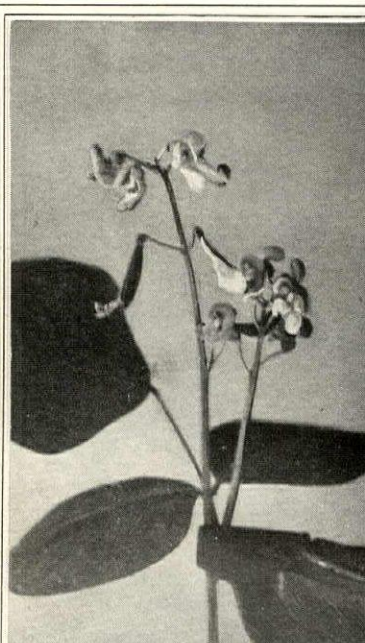
The leaves quickly expand and growth continues. The cotyledons still remain



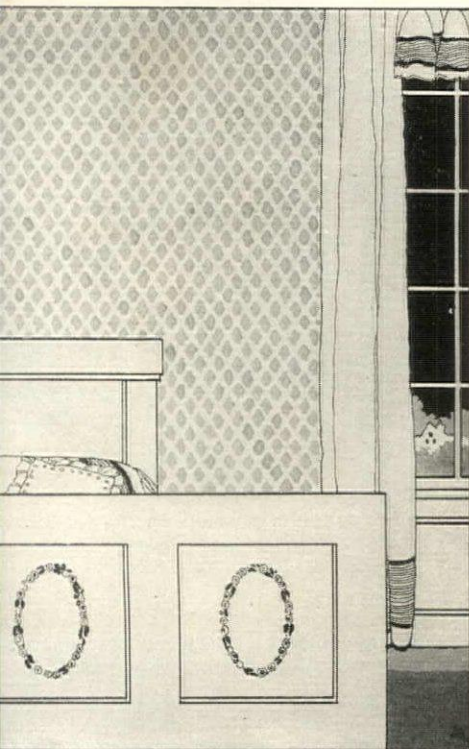
Still another week, and the plant begins to take on more of the appearance of a vine



Upward growth is swift now. Joint after joint develops above the first pair of leaves



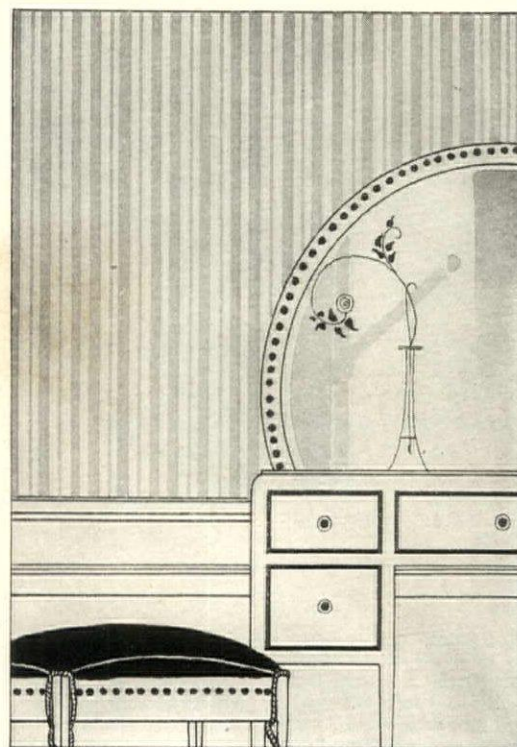
The cycle of life nears completion. The pods of the next generation are forming



NEW WALL PAPER BACKGROUNDS FOR THE VARIED LIFE OF THE HOUSE

Walls constitute the background against which we live, and the choice of them depends upon the type of the life the room and occupant require. Bedrooms should have restful walls, the halls should be dignified. Here are shown six of the latest designs. For the names of the shops write House & Garden, 445 Fourth Avenue, New York City. Or they may be purchased through the Shopping Service.

Summer dining-rooms require a paper that is not too diverting. Its tones should be soft and its designs sufficiently light to lend an air of restfulness and interest. The paper shown below has both of these virtues. The background is a mixture of grey and white and the dog-wood blossom design is in grey-blue. \$1.20 a roll

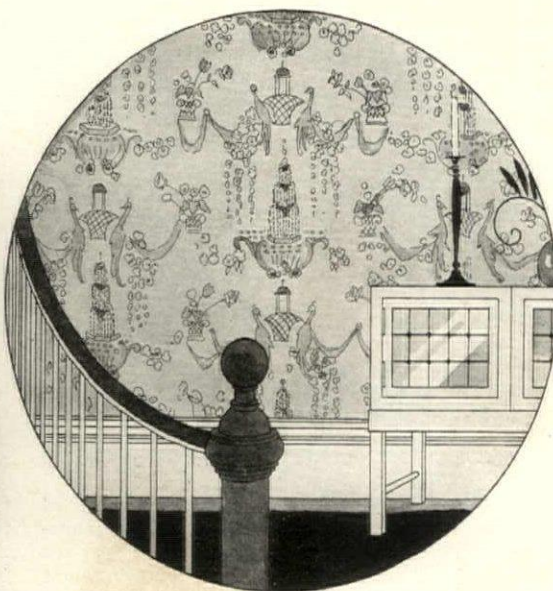
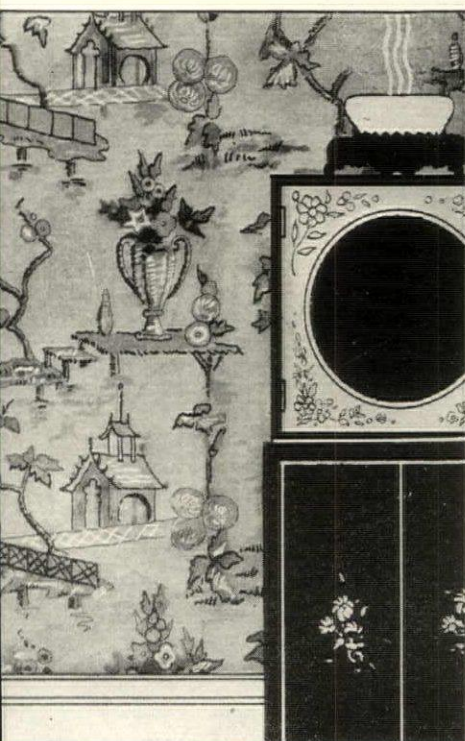


For the purpose of a bedroom is to convey a sense of quiet and peace, the paper should not obtrude itself upon the occupant. It should help to create the atmosphere of restfulness. That dead atmosphere is not in the lattice design above. Its general scheme is grey and white, the grey forming a delicate diamond. It has a soft, clear, cool tone. 35 cents a roll



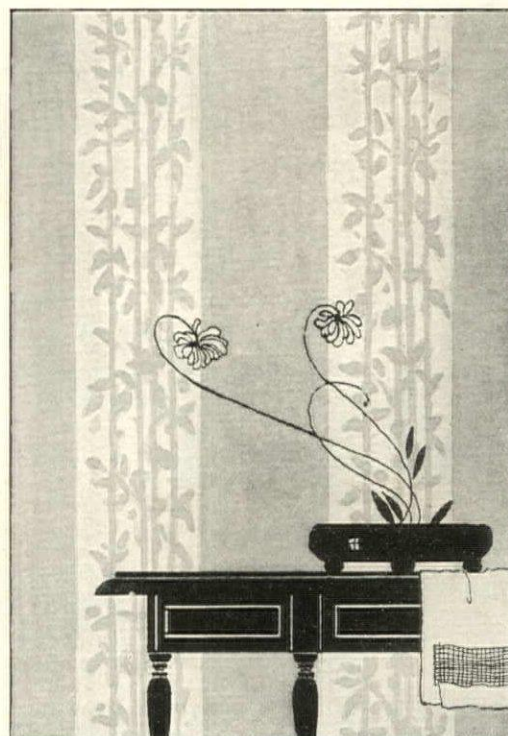
Another type of bedroom paper that makes a quiet background is a green and white stripe with a linen finish. The green is very soft. The paper sells for 75 cents a roll. Picture with it striped green silk curtains made with a box pleated valance piped with lemon yellow and under-curtains of cream net or scrim. The bed cover could be made of the same silk with a lemon yellow edging

For the dining-room is the Canton paper shown below. The background is grey. The leaves are a delightful green and black, and the flowers are a deep berry color. The pagodas are dark grey. It is interesting without being too active. It can be lived with comfortably. \$1 a roll



For the hall comes a Japanese design paper of subdued tones but interesting spirit. The background is pale grey and the flowers, fountains and birds are in two tones of darker grey. It sells for \$1 a roll. With it can be used a black or a deep blue rug, a table and a chair of black lacquer, and on the table a vase of rich crimson pottery

The hall has an atmosphere all its own. It should be formal enough to receive strangers and hospitable enough to receive friends. In the paper below is found both dignity and interest. Warm grey stripes alternate with stripes of white on which are vines and flowers in a warm grey tone. 90 cents a roll



CARNATIONS AND THE OPEN BORDER

Using the Perpetual Sorts
Outdoors in Summer

W. R. GILBERT



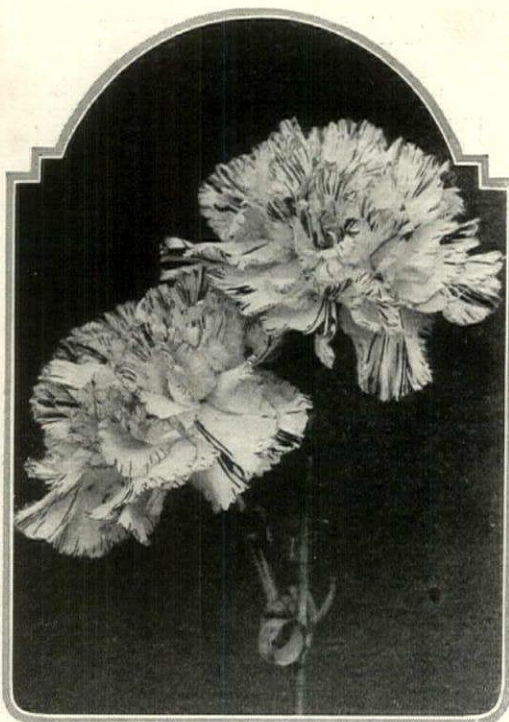
A great advantage of the perpetual carnation is that, properly handled, it will bloom throughout the year

PRECISELY as there exist among the peoples of the earth racial characteristics that mark one from the other, so do differences exist between the tribal members of a given flower family. As there are hardy, rugged branches of the human tree, and others to which exposure to rigorous cold would prove fatal, so are there hardy and delicate flower varieties of the same original stock. Rather strikingly do we find this exemplified in the case of the carnation.

PERPETUAL AND BORDER CARNATIONS

The terms perpetual carnations and border carnations denote two distinct forms or races, and although the former may be used for all purposes, as it blooms under glass the whole of the year and is unexcelled in the open border during summer, border carnations flower only once a year. The long stemmed perpetuals may be seen in flower shows at all seasons; the border type, with blossoms supported by paper collars, is mostly seen at shows in July. A further difference is that perpetual carnations are propagated by cuttings made in the spring, whereas the others are secured from "layers" in the summer.

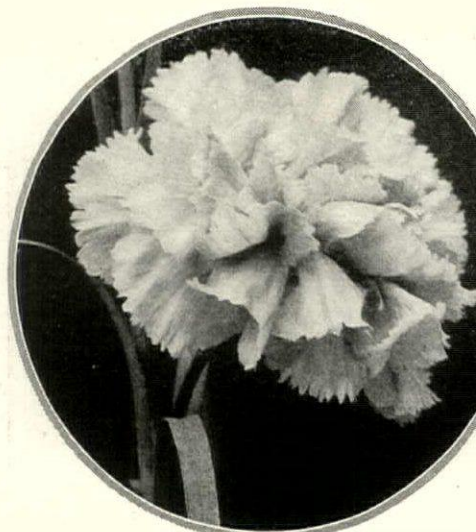
There can be no quarrel, I think, with the assertion that the carnation is a desirable addition



Set them outdoors during the summer and you will add a new and desirable color and perfume to the flower border

to the year's flower crop. That it is not more used is partly due, probably, to mistaken ideas as to its culture; so here are a few carnation requirements and suggestions for fulfilling them.

The perpetuals, which flower throughout the summer outdoors, need not be planted until May,



A wide range is possible in the perpetual carnation bed, as over 500 distinct varieties are now recognized

thus giving time for the beds to be prepared by bulbs. To get the best out of border varieties fall planting is necessary.

SUCCESS WITH PERPETUALS

The conditions for success with the perpetuals are simple. Plants which were struck late in preceding May and potted in 3" pots a month later should be used. These young plants shifted into 5" pots as soon as they become established, at which time they are ready to be stopped by shortening the growth to about from the top of the pot, so as to induce bushiness. This operation is best performed a little less than the potting, and when the roots have reached the sides of the pot. Throughout the summer and autumn they may be grown in frames outdoors like chrysanthemums, and housed in a frame or covered with pit lights early in September. In the natural course of events they will be throwing up flower shoots during the autumn, but as we are growing them to bloom the following summer we give them a further stopping in October, by breaking out the growth at the sixth joint from the previous stopping.

No artificial heat is needed for these plants;

(Continued on page 98)

NAMING THE COUNTRY PLACE

Appropriateness, Distinction and Euphony Are the Three
Great Requisites — How They May Be Achieved

JOHN C. THOMSON

WE must have a name for our suburban home to give it distinction and individuality. Furthermore, we believed a name would inspire greater care in arrangement, and more pride in keeping it well ordered. If an establishment was worthy of a distinguishing name, to sustain such dignity it needs must be differentiated with circumspection and a degree of originality.

Appropriateness we considered a good attribute

in a title, although I personally liked Dragonfells. It filled my eye and mouth and ear; it looked good to me; it was a sweet morsel to my taste, and it sounded musical. I liked the looks of a dragon — I mean their pictures pleased me. A neat likeness of one would make a good trade-mark on the labels of our produce. We could have it illustrated a notice in, say, a poultry paper; and it

would attract and hold attention if put amongst the picture of hens. We could say: "No, we do not offer the eggs of this reptile, but if you want eggs from a fine strain of Blue Andalusians" — and the advertisement would be half written then and there!

However, we did not think the sobriquet fair to any old, ill-tempered or unprepossessing person — or to one who might become such — who would be obliged to live with such appellation. Personal remarks or a nickname might be suggested to sarcastic or snippant observers; and among other things that I intended to lay by for old age, I did not wish to include a ready-made, hint-giving, appropriate epithet. So adieu Dragonfells!

At this time we had no access to a list of names, so spent many hours in searching, shuffling and choosing from the resultant array. We give hints on how to find or coin a name rather than a long list. Many may be changed or combined differently; and some might be translated to another language to their advantage.

A tree name joined to a word indicative of situation gives some good names; for example, Birch Coulee, Cedarcrest, Cherry Hill, Elmdale, Honey Locust Ridge, and Larchfield.

Hill coupled with the name of tree, flower, etc., may be pleasing, like Anemone Hill, Beech Hill, Hillcrest, and Hillcroft.

The name of a flower or plant linked with another name makes these: Aster Ledge, Cloverdale, Crocus Place, Fern Hollow, Bluebell Wood,

Laurel House, Pinewood, and Rose Hedge. Dale or dell, with tree or flower, are: Daisydale, Lillydale, and Mapledale.

Side with qualifying words is good, as Brookside, Hillside, Cotside, Lakeside, and Sunnyside.

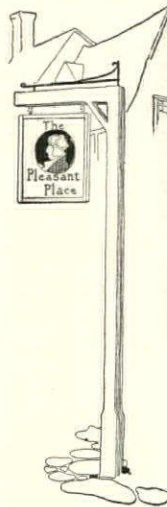
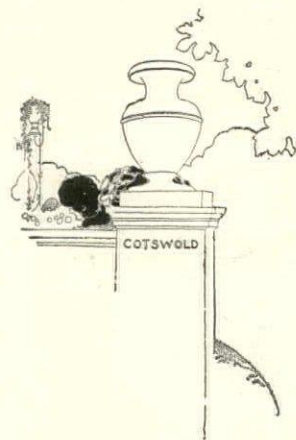
The words Bungalow, Camp, Cot, Cottage, Homestead, Hut, Lodge, Lookout, Outlook, Ranch, Rookery, Roost, Shack, and Shanty, may be preceded by Our or The, or by some appropriately descriptive name like Honeysuckle, Viburnum, Ivy, Woodbine, Garthside, or Hilltop, as: The Rookery, Our Camp, and Forest Lodge.

Sycamore, Melilot, Groveland, and many of the preceding names and those to follow may be joined to Farm or Grange:

Wood, Brook, and Lawn help to make these: Edgewood, Highwood, Woodacre, Brookford, Brookvale, Opal Brook, Trout Brook, Deerpawn, Westlawn, and Woodlawn.

The names of colors may sometimes be used with pleasing combinations, as in Green Gables, Red Rock, and Redtop.

(Continued on page 88)



ATTRACTIVE CONVENIENCES FOR THE HOUSE

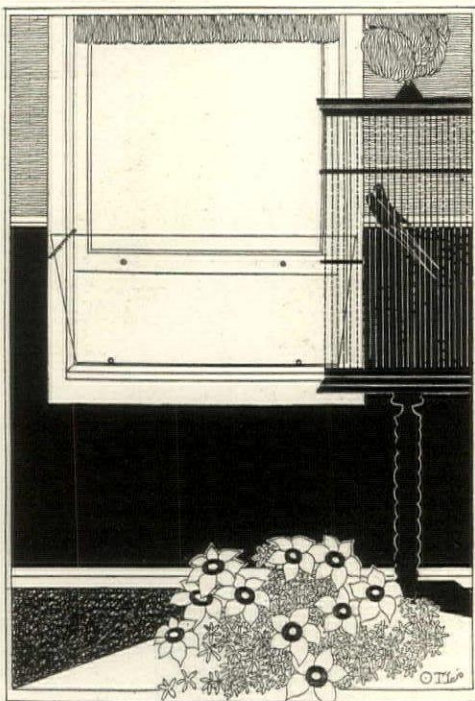
This page is reserved for readers with ideas. Ideas are worth \$1 per to the Editor. If you have an idea that makes the house more attractive or house work simpler, and are willing to part with it for \$1, the Editor can be addressed at 445 Fourth Ave., New York City.

PRINCIPLES SAFE VENTILATION

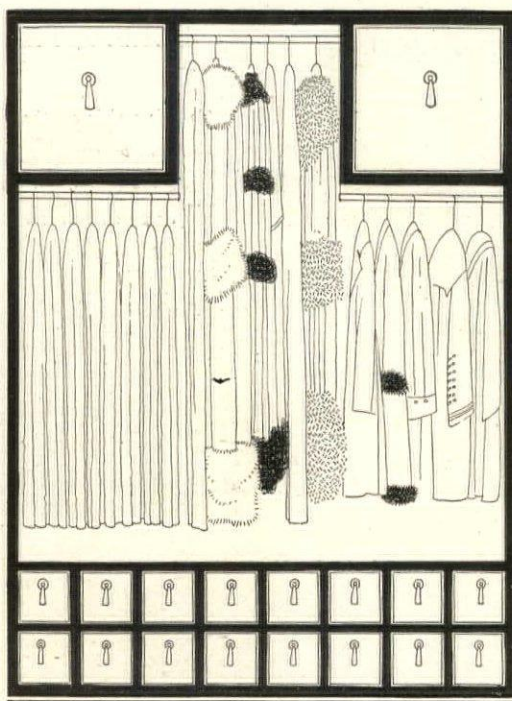
CE the beginning time draughts have been a winter war. Assiduously we them by not sit- where they can us. For the sake convenience and rt it were better se some device by draughts can ected in the right on. This can be plished by apply- the simple princ- of safe ventilation lustrated in the ag to the right.

principle is sim- the turning of the rrent up toward eiling. The pres- there of the er air will cause cooler, cleaner air circulate about the Direct draughts thus avoided and ation is assured. device may be, as here, merely a sheet of glass. Hinges are fastened on the lower and ratchets are attached to the window trim and the glass in position. The angle of the can be adjusted at will, and the amount of regulated by the position of the window itself. special value of this type of ventilator is admits the light and does not detract from appearance of the window.

These devices made on practically these same are on the market. They provide a glass ator with a frame of wood, which protects glass from being broken. Adjustment is ed by a collapsible fan-like metal strip. pane falls into a flange on either side, and asily be removed for washing.



On the above scheme of the adjustable pane of glass fastened with hinges and brackets the principle of safe ventilation is built



A genius with tools has built a temporary clothes closet from wall board—another of the multifarious uses of that material

A CLOSET BUILT OF WALL BOARD

THE man with the kit of tools in the house hath made many inventions. And the clothes cupboard illustrated on the left is one of his latest. For the sake of making the construction clear he has removed the doors. To visualize it as complete, imagine the doors in place, hinged at the sides.

The cupboard is built up against a wall on a frame of 2" x 2" timber. Sections are divided off with the same timber to provide for a square drawer at each upper corner and two rows of smaller draws on the bottom. The frame is then cased in wall board, the divisions and the drawers being made of the same material. Wall board doors on light wooden frames complete

the construction. It is then painted inside and out to match the woodwork of the room, and such decorations as are desired may be stenciled on the doors. The upper corner sections are designed to hold hats and the lower rows to hold shoes. The clothing is arranged on hangers suspended from rods attached to the bottoms of the corner drawers and the middle top section.

As a temporary device in an apartment where closet space is limited and where the owner is ingenious and handy with his tools, this cupboard of wall board serves its purpose. In the long run, however, it were best to purchase a good cupboard of different material.

SILHOUETTE FIXTURES



IN the corner to the left and directly above are two designs for fixtures that combine the principles of indirect lighting and the rules of good taste as recognized today.

The scheme includes a shield to cover the bulb. It is of painted tin. The bulb lies—in the case of the illustrations—in the hull of the boat and in the bowl. When lighted, the illumination is thrown up against the walls and reflected back on the room—in the same manner as any indirect lighting, save for the fact that most indirect lighting provides for the light being thrown on the ceiling. In addition, the fixtures, which can be painted to harmonize with the color scheme of the room, constitute a decoration in themselves. The form they would take would depend upon the design suggested by the uses of the room. The scudding galleon above would find a place in a man's room or library and the flowers would be suitable for a living-room or a hall.

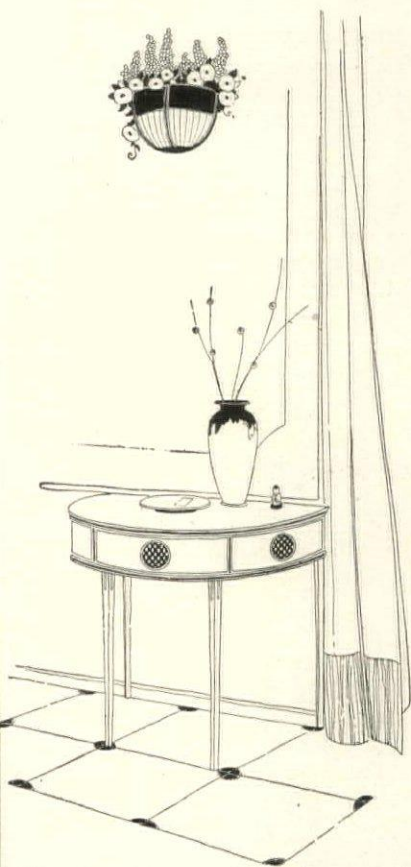
A CURTAIN CATCH

IF you want to rouse the ire of the average housekeeper, knot her curtains. Yet you can go into almost any house on sweeping day and find the curtains knotted or looped back in a fashion that is far from beneficial to the curtains. The same is true of curtains in a bedroom at night. What can one do with curtains at night anyhow? They shouldn't be allowed to blow out to the snow and the rain, and if they are hung over a conveniently adjacent picture, both picture and curtains may suffer.

All of which is rather a lengthy introduction to a very simple device recently placed on the market. It consists of a small brass bracket that can be attached to the side of the window trim. In that position it is out of sight. An arm can be folded out from it. On this the curtains may be looped. The brackets sell for \$1.25 a pair.



Little brackets to be attached to the side of the window trim provide an arm on which to loop curtains at night-time and on sweeping



silhouette fixture combines the principles of indirect lighting with the requirements of the decoration of the room



BRASS ABOUT THE HOUSE

ELIZABETH LOUNSBERY

To this article on the decorative value of brass and its care we would like to add the information that by applying to The Shopping Service, HOUSE & GARDEN, 445 Fourth Avenue, New York City, you can obtain the names of the shops where these articles may be purchased, or purchase them through that service.



Twisted candlesticks, \$10.50 a pair; tall Somersetshire sliding candlestick, \$7; Jacobean candlesticks, 18½" high, \$35 a pair; smaller sizes, \$5 to \$14 a pair; old brass plates, \$5 to \$20 each, and the jug, \$6

VYING with the use of colored glass, Italian faïence and the softer toned potteries, now so much in vogue, brass continues to hold a distinct place among decorative accessories.

Aside from its attractive golden color, that varies according to the proportion of copper and zinc used in its composition, brilliant when cleaned and polished, it is also desirable for its comparatively moderate cost, even in these days of inflated values resulting from the war.

In the practical utensils of early American and English make and their reproductions as well as those of the Dutch and Russians, we find the articles most desirable for modern decorative uses.



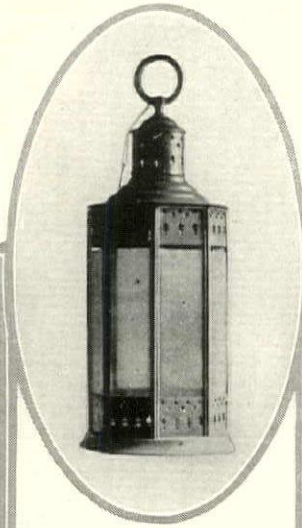
Three distinct types of book ends are shown here. The eagle, \$12 a pair; the knight (left), \$12; Queen Anne flower basket, \$8



The success of an Adam room in its fidelity of detail to the designs. Such fidelity is found in these Adam andirons. \$35 a pair. Shovel, tongs and poker to \$18

Essentials for home comforts, in the early days in America in cooking utensils and other household articles, that were necessarily brought from England, we have now a more decorative uses, while from Holland and Russia—the chiefly of religious significance—likewise been perverted to ornamental purposes in the United States.

The open fireplace, about which the life of the home centered in those early times, was equipped with brass appointments that, even in this improved heating, have their place by the fire. In these the andirons of characteristic colonial design cannot be improved upon for (Continued on page 64)

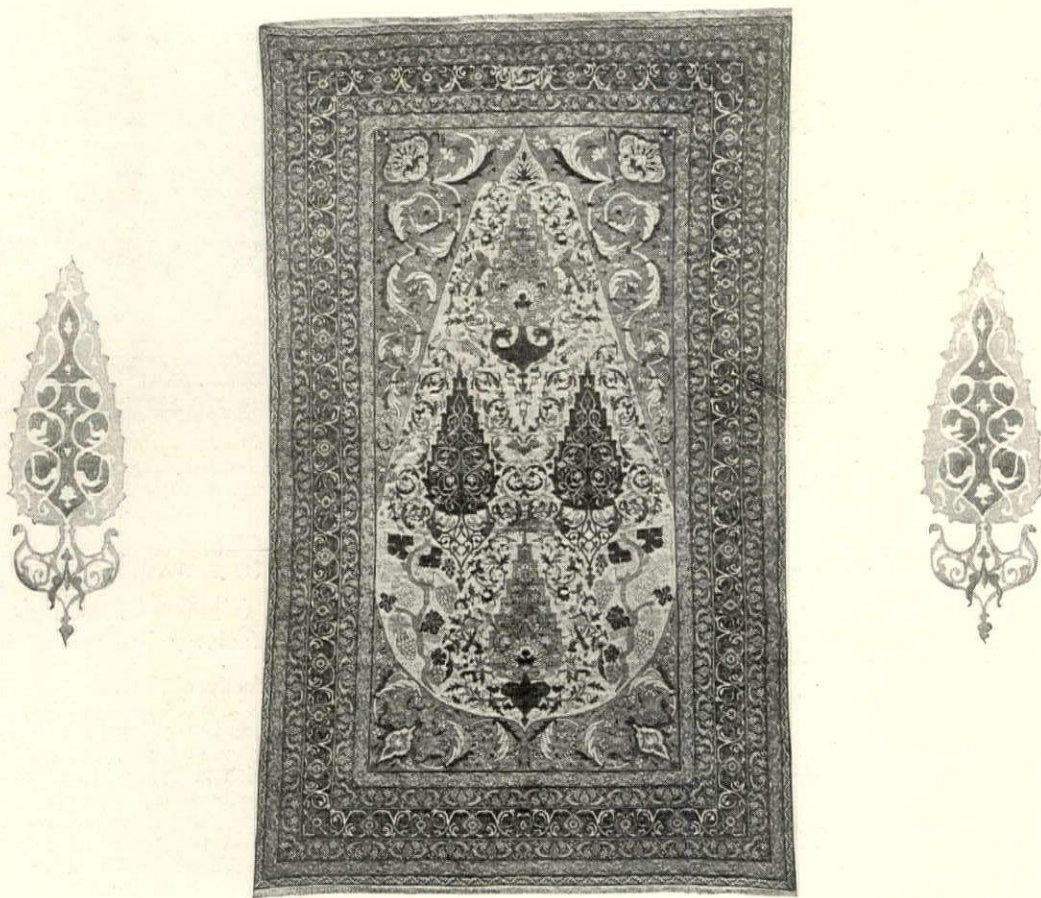


Lanterns such as this with brass frames and glass panes cost from \$10 to \$15

Chai or coffee à la Russe is furnished by the samovar. With tray, drip bowl and silver lined tea pot, the samovar set sells for \$18

Sconces can be used in lighting a side wall where lamps or fixtures are impracticable. These in 12" size, \$7. Smaller sizes are correspondingly less





The above is an illustration of a Persian Odjalik, of Kirman weave, size 7 ft. 10 in. x 4 ft. 8 in., Price, \$875.00.

EASTERN RUGS

This rug, the production of Ustad-Oshgore, a master weaver of Kirman, is a most unusual example of fine Eastern weaving.

The Cypress, symbol of youth and grace, is employed as the large central motif, upon which are again cleverly imposed the same forms in smaller scale; the birds with characteristic old Kirman treatment, are woven in silk. The color scheme of fawn, blue, ivory and green, completes the charm of this masterpiece.

It is but one of a great number and variety of unusual Rugs in our stock.

We shall be glad to give further information upon request.

W. & J. SLOANE

Direct Importers of Eastern Rugs

Interior Decorators Floor Coverings and Fabrics Furniture Makers

FIFTH AVENUE AND FORTY-SEVENTH STREET, NEW YORK

WASHINGTON, D. C.

SAN FRANCISCO, CAL.

Fair List Prices

Fair Treatment

GOODRICH

BLACK SAFETY TREAD TIRES

Can Not Fail You



YOU take no risk whatever in buying a Goodrich Black Safety Tread.

Either the tire gives you a dollar for dollar service—must act as the best fabric tire should—or the B. F. Goodrich Company squares the account.

The tire can not fail you unless you fail *yourself* by not letting Goodrich know one of its tires is in debt to you.

Goodrich Super-Guarantee

Goodrich Fair Treatment at all times stands ready to meet *more than half way* honest fault finding with Goodrich tires.

It is more eager than you to have a reckoning with the shortcomings in Goodrich tires.

There are no strings—no conditions—no catch words to Goodrich's world-wide offer: *Send in a Goodrich tire that owes you anything.*

Goodrich Fair Treatment *will settle in full*—settle gladly and generously.

The B. F. Goodrich Co.
Akron, Ohio

Also maker of the tires on which Dario Resta won the 1916 National Automobile Racing Championship—Silvertown Cord Tires

Where You See This Sign
Goodrich Tires are Stocked



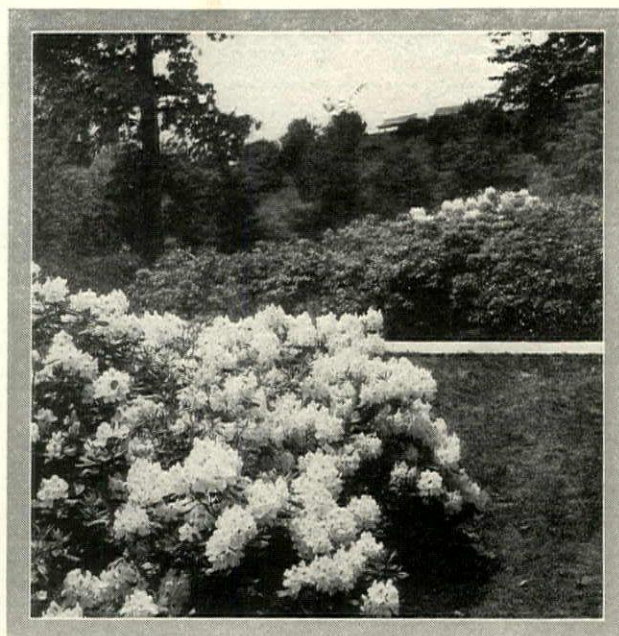
Ask Your Dealer for Them

GOODRICH FAIR LIST PRICES

The standard of prices for the standard tires. Pay no more

30 x 3	\$11.35	32 x 3½	\$17.70	33 x 4	\$23.70
30 x 3½	14.70	31 x 4	21.60	35 x 5	40.30
31 x 3½	15.35	32 x 4	23.05	37 x 5	43.10

'Best In The Long Run'



Besides the bank and large mass types of planting, rhododendrons may well be used in small groups as accent points

As to Flowering Evergreens

(Continued from page 37)

peaty or sandy soil," absolutely free from all trace of lime.

It is, of course, perfectly obvious that a plant which needs a moist and peaty soil should dislike lime; for lime is a soil sweetener above all else. A rich and peaty soil, rich in decaying vegetation, is decidedly sour; a plant which prefers it, prefers sour soil; hence nothing could be more contrary to such a plant's needs and wishes than anything which tends to change this condition. Plants are not unlike people; give those who have a *pendant* for acids only sweets to eat and they sicken and pine—and die, if their food preferences are continually thus overridden without consideration.

All of this heath family are shallow rooted plants. This is another decided and common characteristic—also perfectly obvious, when you stop to consider. For growing in a moist soil, they have no need to send roots down deep after nourishment. It is available right at the surface of the ground, practically; and so they spread their roots out in a fine network close up to the surface.

Because of this habit of shallow root growth, they are naturally very sensitive to heat on the ground around them—to sunlight shining upon it, if not to sunlight shining upon their heads. Not a root in all creation likes light, to say nothing of sunlight or heat. Roots must be cool and in the dark. Hence shallow rooted plants generally require the ground above them to be shaded, and to this family it is essential that it be so. This is the reason for the persistent mulching practiced by those who know how to handle them.

APPROPRIATE USES

The trees perform this office for the wild plants; for by nature they grow in open woods where the leaf fall drifts around them every autumn, and remains to decay and add to the food which they dote on, year after year. Trees shade them, too, in winter as well as summer; for even bare branches offer a considerable obstacle to the warmth of the sun. The man who plants rhododendrons or laurel in the open, therefore, and then rakes the ground around them clean as fast as the leaves blow over it, is a criminal.

So I come at last to speak of the

use of these plants, particularly rhododendrons and laurel. They are all immensely popular—and expensive, as compared to ordinary deciduous garden material. Thousands of rhododendrons find their way every year to screen the foundations of dwellings, to take the place of deciduous shrubs, to belong only to deciduous shrub broad plantations, to make "and to do pretty nearly everything else which a rhododendron not to do and never was intended its Creator to do.

When will we learn that these all "wild flowers," just as the most elusive wood orchid, gentian, or the precious pitcher of hidden bogs? You may say all flowers are "wild" somewhere in the world; and I grant you, though I could name a lot of h this and that and the other never were wild anywhere in the world, if I were disposed to hairs! But certain wild flowers, easily domesticated, are fitted by nature to adorn any spot, just as certain animals are by nature designed apparently to be Man's companions, friends, while others are untamable.

ESSENTIALLY WILD PLANTS

It is to this latter, untamable, that all of this family belong; though wonderful hybrids have been produced and beautiful specimens in existence, it is only when planted in conditions similar to those in which the plant chooses in a state of nature that they fully satisfy one's sense of fitness and harmony. Under other conditions there is an incompleteness in the landscape; it is indeed a landscape at all, in the sense of the word, but rather a collection of laurel, or rhododendron, or whichever of the family is used.

But starting with the conception that they are all wild growth of untamable nature, it is impossible to go astray in the use of them. They invariably require naturalizing—tending, massing, banking, planting generally in such careless form as they naturally assume in the woods. Always put them under partial shade, at least, of overtopping trees, and always where the growing conditions are rich.

Of course, this makes them everybody's plant, but only plants

(Continued on page 62)



Neglect did this!

ARE you neglecting your trees? Do you know positively that they are strong and healthy—are you sure they are free from decay and disease?

It is dangerous to guess about your trees—dangerous to procrastinate.

The owner of the tree shown above *assumed* that its condition was perfect, but he intended to find out *some* day for a certainty.

His neglect was fatal. The tree, sound in appearance to the untrained eye, inside was seriously decayed. One day a severe storm blew and the weakened tree gave way—ruined beyond saving! It was a case of "the last straw which broke the camel's back."

Take no chances with your trees—have them examined *now*.

But be sure to select Tree Surgeons of *proved* ability—experts who can save your trees without guessing or experiment.

You wouldn't think of entrusting your body to a hospital assistant nor your teeth to a dentist's helper. To entrust your trees to untrained and inexperienced men is equally dangerous—as dangerous as neglect itself.

Davey Tree Surgery Is Safe

Your trees, many of them the product of several generations, are priceless. Once lost, they can not be restored in your lifetime, or that of your children.

To whom shall you entrust them? There can be only one answer, for there is only one *safe* place to go—to Davey Tree Surgeons.

Safe—because Davey Tree Surgery is time-proved; its record of successful performance for thousands of estate owners spans a generation.

Safe—because the Davey Company is a successful institution of financial stability and amply able to make good in every detail.

Safe—because no Davey Tree Surgeon is allowed any responsibility until he has conclusively demonstrated his fitness. He must have served his full course of thorough practical training and scientific study in the Davey Institute of Tree Surgery—a school, the only one of its kind in the world, which we conduct for the specific purpose of drilling our men in Davey methods and Davey ideals.

Safe—because Davey Tree Surgery has been endorsed as best by the United States Government, after exhaustive official investigation.

Safe—because Davey Tree Surgery is recommended by thousands of prominent men and women whose endorsement you can accept with complete confidence. (Several such endorsements appear on the right.)

Tree "patching" cannot save your trees. Only scientific, mechanically perfect treatment by men trained through years to the point of finished skill can be permanently successful. And for such treatment by such men there is only one safe place to go—to Davey Tree Surgeons.

Write today for Free Examination of your Trees

—and booklet, "When Your Trees Need the Tree Surgeon." What is the real condition of your trees? Are insidious diseases and hidden decay slowly undermining their strength? Will the next severe storm claim one or more as its victims? Only the experienced Tree Surgeon can tell you fully and definitely. Without cost or obligation to you, a Davey Tree Surgeon will visit your place, and render an honest verdict regarding their condition and needs. Write today.

The Davey Tree Expert Co., Inc.
503 Elm St., Kent, Ohio

(Operating the Davey Institute of Tree Surgery, Kent, Ohio.)

Branch Offices, with Telephone Connections:
225 Fifth Ave., New York; 2217 Land Title Bldg., Philadelphia; 450 McCormack Bldg., Chicago.

Permanent representatives located at Boston, Newport, Lenox, Hartford, Albany, Poughkeepsie, White Plains, Stamford, Jamaica, L. I., Morristown, N. J., Philadelphia, Harrisburg, Baltimore, Washington, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Louisville, Chicago, Milwaukee, Minneapolis, St. Louis, Kansas City. Canadian Address: 81 St. Peter Street, Quebec.

Five typical letters from hundreds by satisfied Davey clients

Mr. William Almy, William Almy & Co., Boston:

"The skill of your workmen is remarkable. I am sorry I did not have this work done sooner as I apparently lost a tree by not having an expert examine my trees before."

Mr. Joseph Pulitzer, Jr., owner of the New York World and the St. Louis Post-Dispatch:

"Your work on the trees on my place was done in a most thorough and painstaking manner."

D. S. Chamberlain, President, Chamberlain Medicine Co., Des Moines, Iowa:

"I congratulate you on the excellent work you are doing. I have seen much of this character of work done in some foreign countries, as well as in the United States, but none as perfect, scientific and satisfactory as yours."

Dr. G. L. Doenges, Superintendent, The Johns Hopkins Hospital, Baltimore, Md.:

"We have been very much impressed by the work done here by the Davey Tree Company."

Mr. Robert E. Friend, Second Ward Savings Bank, Milwaukee, Wis.:

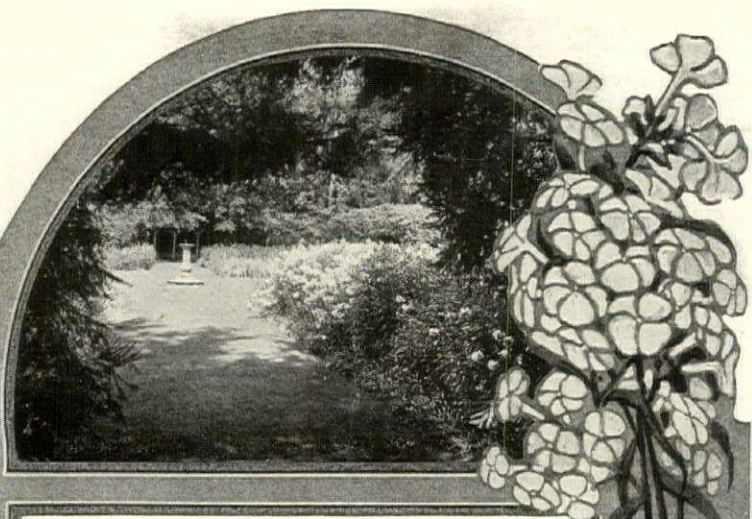
"I cannot commend too highly the work you have done both this year and last on our place at Pine Lake. Your work on the University Club trees here in the city, under my supervision, was also very good indeed."

Davey Tree Surgeons

FOR SAFE TREE SURGERY

Every real Davey Tree Surgeon is in the employ of the Davey Tree Expert Company and the public is cautioned against those falsely representing themselves.





In Sutton's Catalog Are Choice Flowers and Vegetables Found Nowhere Else

YOU who have favored us by coming to our beautiful, garden graced England; know fully well the surpassing beauty and charm of its flowers.

You Americans, so we understand, sometimes think of us as being a bit stolid, and lacking in enthusiasm. But surely no nation, so enthusiastically fosters, or more genuinely loves flowers.

Every little town has its liberally patronized flower shows.

In this exceptional environment, the Sutton family have been growing, developing and perfecting seeds for generations.

Very naturally, it has resulted in being more than a business with us. It is a life work of genuine pleasure.

This pleasure, we would share with you in the wonderful charm of our flowers and the surpassing varieties of our vegetables.

Let us send some Sutton Seeds to you this year.

Send 35c for Garden Guide. When your orders for seeds amount to \$5, the 35c will be promptly refunded.

Sutton's

ROYAL SEED ESTABLISHMENT

Reading, England.

WINTER, SON & CO.
64-E Wall Street, N. Y.

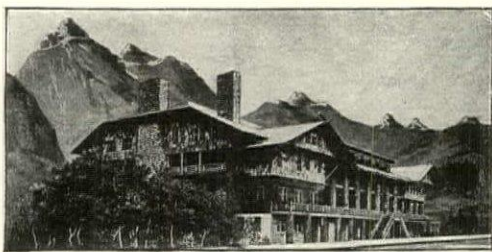
Sole Agents East of
the Rocky Mountains

The SHERMAN T. BLAKE CO.
429-E Sacramento Street
San Francisco, Cal.

Sole Agents West of the
Rocky Mountains

*Sutton's
Seeds*

"See
America
First,"
Great
Northern
Hotel,
Glacier Park.



S. L.
Bartlett,
architect,
St. Paul.

This Famous Hotel is Stained with Cabot's Creosote Stains

and the bungalows, camps and other buildings have also been stained—shingles, siding, boards and trimmings—with the soft, rich colors that harmonize so perfectly with nature's tints. The colors are never shiny, and they grow softer and nicer on weathering, with no cracking or blistering. They cost less than paint, and anyone can put them on at half the cost for labor. The Creosote penetrates the wood and preserves it against decay and insects.

You can get Cabot's Stains all over the country. Send for stained wood samples and name of nearest agent.

SAMUEL CABOT, Inc., Mfg. Chemists, 11 Oliver St., Boston, Mass.
24 W. Kinzie St., Chicago 523 Market St., San Francisco

As to Flowering Evergreens

(Continued from page 60)

such men as have suitable places to grow them. Here is the kernel of the situation! There is no getting around it. You may have rhododendron flowers in almost any doorway, just as you may have water-lilies in a tub; but to know how beautiful water-lilies are, you must have them growing in a pond, in a state of nature. And so to use these members of the heath family, you should have woods and dells and wilderness conditions generally; and a pool or water tumbling down rocks if possible; for it is above such cascades that some of them bend, in their mountain homes.

There is probably no material available that is as fine for use in groves, or where great trees grow, as the rhododendron and the laurel. But great care must be exercised in grouping and selecting the clumps for every spot, lest unsightly, leggy specimens crowd to the front and obtrude their angles. The same rule prevails in planting evergreen shrubs that guides in the grouping of deciduous masses: that is, the foreground of the mass should come down to the ground, and leave no bare openings through which branches may be seen. This is a point so often overlooked that I speak of it particularly; for with evergreen material, the oversight is not as well remedied by the plant's growth as it is in the case of the deciduous things.

The so-called "broad leaved evergreens" generally are used to a very great degree just because they are evergreen, and therefore assumed to be cheerful notes in the landscape in winter. To a certain extent this cheerfulness is true of laurel and of the others; but rhododendrons are about the most pinched and unhappy looking things on a biting cold day than can be found. Moreover, they are "pinched," for they have a very interesting way of curling their leaves to avoid exposure to the cold, somewhat as people draw themselves in and shrink as much as possible when chilled. Shrinking thus from winter's severity, a rhododendron is a pathetic looking shrub, around which I always feel I should like to put a shawl.

Like evergreens of larger growth, evergreen shrubs do not combine well with other vegetation, nor does one kind combine well with another. This is because they have, in common with all evergreens, marked individuality; and each therefore seeks to dominate. Hence, they are antagonistic one to another. Ground cover beneath such a plant as the rhododendron should be an unobtrusive member of the family such as the Andromeda, or the leather leaf, in combination with still lower growth, like partridge berry or the always attractive wintergreen.

RHODODENDRON VARIETIES

Rhododendron maximum is the common American species, the great American rose bay, which grows wild as far north as New England and away south into the high parts of the southern Alleghany mountains. Naturally it grows in proximity to mountain streams and cascades, where all Nature is wildest and most exuberant. Its flowers are either white or pink, and there is no hybrid lovelier than the species.

In company with it grows *Rhododendron Catawbiense*, the rose bay which went to Europe over a hun-

dred years ago, and became the parents of the great *Catawbiense* hybrids offered in quantities today. It is the first all except in color, which is a reddish purple. It is not of great size as *Rhododendron maximum*, but its foliage is much denser and not subject to the rust often makes the latter unsightly.

Under no circumstances should hybrids be used for naturalizing on a large scale; they belong to the realm of the exotic, and though too should be planted in situations which are so cleverly contrived as to seem natural, they cannot endure the vicissitudes of climate and weather well enough to make trustworthy for large scale planting. Choose one or the other of the just described and add the highly desirable native, *Rhododendron Carolinianum*. This is but a very beautiful, spreading shrubby species, growing soon to a height of 15'. Its blossoms are rose pink and produced in *Rhododendron Catawbiense* also in June, while the pink of *Rhododendron maximum* is the shrub in July.

Preceding the rhododendron play comes the mountain laurel, with its exquisite pink blossoms lightening the woods wherein it dwells. They are a fairland in May according to the latitude. The one that grows is hardier than the other; it is safe to say nothing is lost. Its foliage is far more pleasing than the foliage of the stiffer rhododendron; and to my taste, it is quite the equal of theirs. *latifolia* is its official title.

HARDY AZALEAS

Azaleas are the third in the lovely things in the heath family, the hardy native azaleas. They are not evergreen, hence do not rightly belong in this article, but they belong in the family, and shall not exclude them. They are planting which has heath motif; moreover the lower form a very desirable complement to the laurel and rhododendron as useful as a cover shrub. The pink, in some places misnamed wild honeysuckle, is about 4' high and makes a complete cover.

This swamp pink is *Azalea nudiflora*, with white or pinkish, very few flowers. *Azalea arborescens* is a tree azalea, sometimes 20' high, with pink blossoms that are delicately fragrant. The great flame is a color that needs to be handled warily in connection with the pinks in the family, for it is orange scarlet, truly like a flame. This is *Azalea lutea* in some cases, but really *Azalea calendulacea*. One wishes to name it *calendulacea*. *Azalea lutea* is also supplied for *leucodora*, which is not orange, all, but pink or nearly white. It does confusion prevail in nomenclature, and one can never be too careful in buying, particularly when such color differences exist.

The Andromeda, or *Pieris burreana* (sometimes *Andromeda burreana*) is low growing, seldom more than 4' in height. It is compact and shapely and well with foliage, with very abundant white flowers in upstanding spikes or racemes, it makes a showing in May. Then, too, it is

(Continued on page 64)

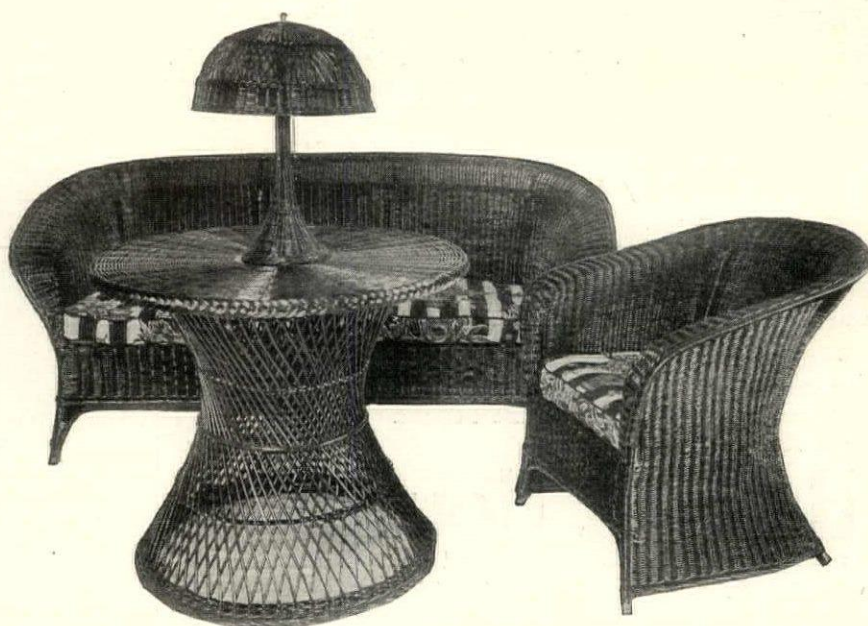
The REED SHOP, Inc.

467 Fifth Avenue
NEW YORK

Reed Furniture Ideal for both
the City and Country Home

Imported Cretonnes, Upholstery
Fabrics, Scotch Art Rugs

On receipt of 14c in postage
we will mail our new cata-
logue now ready for delivery



Bobbink & Atkins

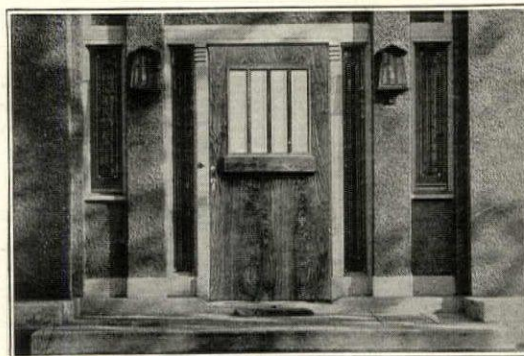
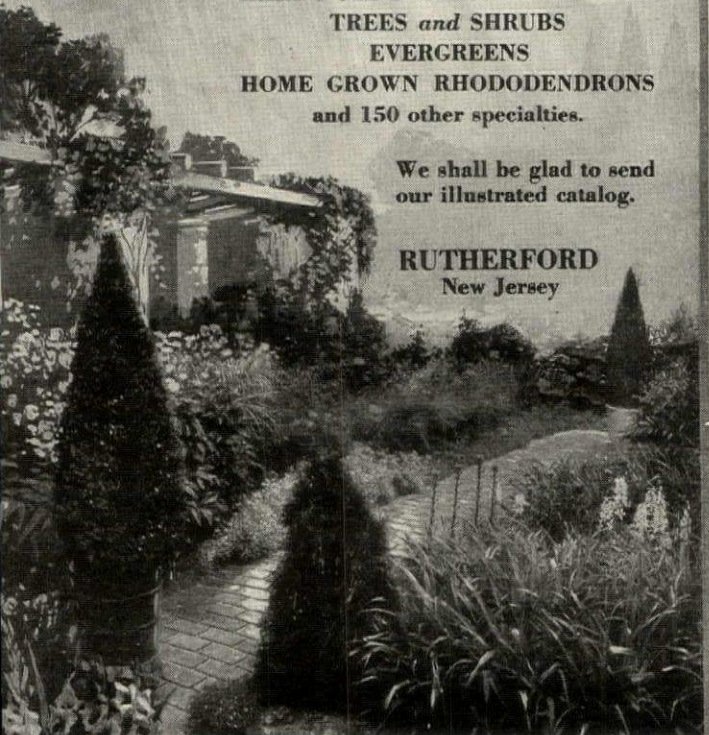


Sunshine and Showers—
and the "World's Choicest Nurs-
ery and Greenhouse Products
Grown in America" assure the
Garden Beautiful.
We do our part.

HOME GROWN ROSES
HARDY OLD-FASHIONED FLOWERS
TREES and SHRUBS
EVERGREENS
HOME GROWN RHODODENDRONS
and 150 other specialties.

We shall be glad to send
our illustrated catalog.

RUTHERFORD
New Jersey



The front door of a home expresses the taste and character of the owner. It is the first impression the visitor gets of the home—and first impressions are lasting.

MORGAN Front Doors

are made in a wide variety of designs and styles. You will find a door in the Morgan line to express your individuality.

Carefully selected veneers make Morgan Doors beautiful and distinctive. The exclusive All White Pine Core and patented Wedge Dowel Construction assure durability and perfect service.

Morgan Doors are guaranteed to give complete satisfaction.

Suggestions for Beautifying the Present or Prospective Home

You don't need to build a new home to enjoy the beauty and service of Morgan Doors. "Adding Distinction to the Home" gives suggestions for improving the present home.

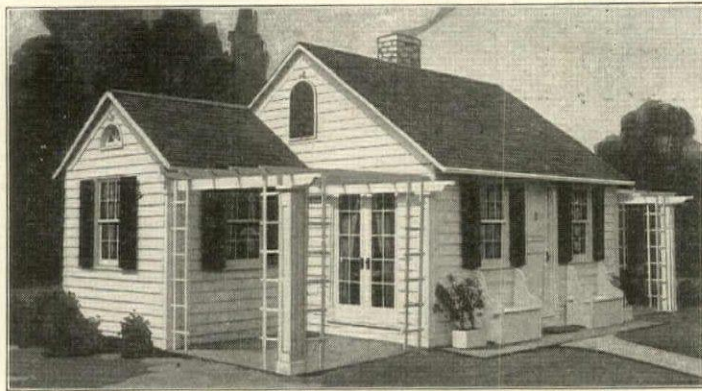
"The Door Beautiful" is a book of suggestions on doors, interior trim and interior decorations for prospective builders.

Send for either, or both booklets.

Morgan Sash & Door Company

Dept. C-22 Chicago

Morgan Millwork Co., Baltimore Morgan Co., Oshkosh, Wisconsin
Exhibits of finished Morgan Model Doors in all principal cities. Ask for list.



More House for Less Money

BY the Bossert modern method of building, a great many savings in materials and labor are effected. Just as the locomotive is a more efficient machine than the hand car, the work is done for you at an efficient factory instead of by old fashioned hand labor, and you are sold the finished product.

The time and money saved go into better plans, better materials, and you get the benefit. Before you build investigate

Bossert Houses

In these days of high labor costs why not buy the finished product in houses as you do in every other line of merchandise? Every house has its own individuality, yet shares in the savings effected by large buying of material and efficiency in manufacture. The economical Bossert

method of construction makes it possible for us to deliver a beautiful little Colonial House like the above, with two 9x12 bedrooms, a 9x18 living room, kitchen and bath, with screens, lattice work and benches included in the price.

Price: Eleven hundred dollars complete
F. O. B. Brooklyn

Two men can erect this house in three days; not even a nail to buy.

Send 12 cents today for complete catalog showing Bossert details of construction.

We also manufacture the smaller "portable" or "knock down" houses.

LOUIS BOSSERT & SONS, INC.
1306 Grand Street, Brooklyn, N. Y.

A Terra Cotta TILE ROOF



Architect, Harry S. Bair, Pittsburgh, Pa.

Our illustrated booklet "The Roof Beautiful," printed in colors, contains views of many beautiful homes with roofs of Terra Cotta Tiles, and is sent free upon request.

LUDOWICI-CELADON CO.
General Offices: 1107-1117 Monroe Building

Manufacturers of
Terra Cotta Roofing Tiles
CHICAGO, ILL.

on a modest priced house gives it stability and character and adds to its selling value. It's the only perfect shelter—leak-proof and fire-proof. Requires no paint, stain or repairs to preserve its beauty and lasts forever. Border of advt. shows more clearly detail of Closed Shingle Tiles used on this pretty residence of R. H. Bartlett, Pittsburgh, Pa. Ask your architect about the use of tiles on that new home you are now considering.

As to Flowering Evergreens

(Continued from page 62)

year's buds form immediately it has done flowering, and as these look very much like flowers, it almost has the appearance of being perpetually in bloom. *Ledum latifolium*, or Labrador tea, is a foot lower than it, hence is suited to the very lowest edge where the shrubby mass comes down to the ground.

There are one or two evergreen shrubs or small trees that are outside this family, which ought not to be omitted, if one is planning evergreen shrubbery or general planting. One is the native holly, *Ilex opaca*, which is hardy as far north as Massachusetts though it grows only as a shrub and never into a tree in the north. This is very difficult to transplant, and difficult to establish; but once started growing, it is a thing of so much beauty and such sentimental value that all the trouble is well worth while. One of the secrets of success with it is to strip every leaf from it at the time of transplanting. There will be no success otherwise.

The evergreen thorn (*Crataegus pyracantha*) has brilliant orange berries all winter, lighting up its dark foliage very much as holly berries shine in the midst of the holly's prickly leaves. This may indeed be used in place of holly for Christmas greens. The flowers are white or pink, early in the spring; and all in

all it is a charming species either as a mass or for a single striking individual note.

Then there is the holly-leaved holly, enough like a holly to fool the unwary—really *Berberis aquifolium* or holly-like barberry; and the creeping form of it, which is *B. repens*; and the "great bear" (*Arctostaphylos Uva Ursi*), with a creeping, shrubby growth that makes fine ground cover in sandy places; and the *Daphne genkwa* of ravishing fragrance, on the surface of the ground sending up umbels of lovely pink spring, and often again later in summer; and the evergreen *Chamaenerion microphylla*, with bright berries—low and spreading, well suited to banks or rocky slopes.

There is no material richness in possibilities than just the heath given suitable conditions for use; but where these conditions do not prevail, and evergreen shrubbery is still desired, I would advise choice of some of these last mentioned, leaving out rhododendrons, and their kind altogether. It is essential to the fullest realization of their beauty that natural conditions should be right, as I have endeavored to point out, and that the spirit of the wilderness should brood over preserving the wild and elfin

Tulip Time in the Garden

(Continued from page 16)

foreground. Back of this group again, more green, more green, and tulip *Bleu Aimable* beyond. The color of *Bleu Celeste*, but the former is a single tulip of the Darwin type. Clara Butt stands beyond this grouping, at a distance sufficient to keep its cooler rose pink from conflict with the strange and lovely color of *Le Rêve*.

All through this garden, too, in certain springs at the time of tulip bloom, little colonies of *Narcissus poeticus* are in flower. These, the only white in the garden since the general scheme is lavender and pale to bright rose, give that delicate effect which is found when *Stevia*, *gypsophila* and other fine-flowering whites are added to bowls or bouquets of subjects which are decidedly strong in form and color.

On leaving the garden by its gateway toward the house, it is a marvel to lift one's eyes from all this beauty within formal limits and above a bar of dark hedge to see long garlands of wistaria in full bloom along the old stone wall of the spring-house, the quaint little building without which no Pennsylvania or Maryland farmwife in the old days was expected to perform the duties of a housewife. The spring-house now serves as a studio.

BEAUTY IN ENVIRONMENT

Too much can never be said of the charm of the Pennsylvania farmhouse—the old farmhouse, generally of blue limestone most beautifully laid. The proportions of some of them, their delicacy of color, and their comfortable, convenient placing and rare environments of fine tree groupings make the old rural architecture of that state a thing to covet and enjoy. Those old builders understood not only what to build

but how and where to set them for shelter and for picturesque purposes; wherefore, a picture of high beauty was (sometimes unconsciously) created. When considering foregrounds such as this charming little formal garden afforded by backgrounds furnished by buildings, or by a landscape so finished, can hardly be passed without a word, so bound together are all the elements of the picture. And I am always wondering why Pennsylvania is not the home of more people who love which belongs to Nature and to

A MICHIGAN GARDEN

If I may let this spring garden serve as a text for further preachings, I would tell of an old garden on my own grounds in Michigan. From the house in which we dwell of dark brick like the runs east some 60' to the street dwell upon the borders flanking sides of an insignificant walk as this may sound a bit presumptuous; but let me quickly say that year these borders were positively kaleidoscopic in effect. And courage those who think they are little in gardening because of a restricted space, I will give approximate measurements as well as account of the plantings.

This walk is some 5' in width runs from east to west. Some ago word came to me concerning the interesting manner in which grapes were grown in low fences along the walks of certain kitchen gardens; wherefore, I tried other place for grapes, and that the little decoration of vines might not be out of place here, I set to the south of this and only 10' from it a number of iron posts 9' apart, painted

(Continued on page 66)

Naturalistic Home Landscaping

Little Tree Farms — Birthplace of Little Trees that Live

OFFERS UNEQUALLED VALUE in America's most wonderful and useful evergreen—White Pine—more valuable and more extensively planted and appreciated than all others combined. The dense rich evergreen foliage gives great beauty in winter when snow laden, also protection and screening. They break the dust and noise; give shade and seclusion and thicken up and supplement your older plantings. Use in your native woods and reclaim unsightly hillsides and odd corners.

Replace America's Choicest Evergreen Upon the Landscape and Have Truly Naturalistic Planting

We Specialize: Our stock of many millions is the largest in America therefore our unequalled values in these splendidly developed White Pines, 3 to 4 feet high, twice-transplanted and root pruned.

The price is greatly reduced in carload lots of five to ten thousand; 32c. each.

If you want only one standard box of 100 trees, they cost 38½c. each; 35½c. each if you take ten boxes.

Many carloads of these Evergreens are annually shipped to America's finest country estates and parks and to nurserymen. They give immediate effects and permanent evergreen beauty.

Nobody's needs are overlooked so we offer a sample box of ten trees at \$7.00.

All delivered to Transportation Company at Framingham, Mass.—home of Little Tree Farms.



Sample White Pine 3 feet high. It will grow to be like that in the other picture.

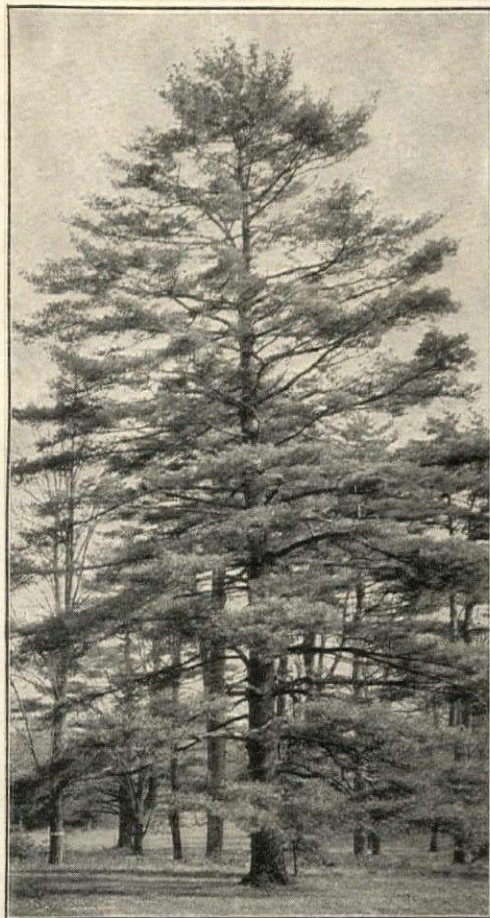
Write for information; tell us under what conditions you wish to plant. One of our Forest Landscaping Engineers will take up the matter with you, and we can assure you success—complete success such as many others have had. Our Engineers have been entrusted with the biggest work and are recognized as the largest tree planters in America. We have a splendid organization of technical men and skilled workmen.

Illustrated Catalogue Free

also instructive Bulletin on Evergreen Possibilities mailed on request. Your letter making specific inquiry incurs no obligation and will have careful and prompt attention.

American Forestry Company

Div. K, 15 Beacon St. BOSTON, MASS.



White Pine in Maturity

The beauty of this evergreen is preserved by an

EXCELSIOR
RUST PROOF

BED GUARD

LET air and moisture reach the roots. Work the ground. This Excelsior Rust Proof Bed Guard prevents trampling and packing by animals. Also protects the lower branches, preserving the symmetry of the tree. Prevents mowers and garden tools getting too close and clipping off the tips of the branches. These guards can be moved about or taken up and laid away for the winter.

Excelsior Bed Guards are made of extra strong, heavy wires, held securely at every intersection by the Excelsior patented steel clamp. Dip-galvanized after making. This not only prevents rust, but securely solders the lateral to the vertical wires, which means added rigidity and strength. If you would know more about these garden necessities, write for catalog C.

We also make a full line of Excelsior Rust Proof tree guards, fences, trellises, tennis railings, gates, etc.

WRIGHT WIRE COMPANY

Worcester, Mass.



A Better Lawn At Less Expense

THE Fuller & Johnson Motor Lawn Mower is designed for the large lawn with numerous flower beds, shrubs and trees, where great flexibility as well as large cutting capacity is required.

This wonderful Mower is large enough to cut five acres a day, yet light enough not to mar the turf, and so extremely flexible that it will cut close up to and around trees, under the shrubbery, and along walks and driveways, thus entirely eliminating the necessity for cleaning up afterwards with a hand mower. The

FULLER & JOHNSON MOTOR LAWN MOWER

is backed up by 70 years' reputation of the Fuller & Johnson Manufacturing Co. for the highest manufacturing integrity.

It is scientifically designed and built as a complete unit. Indeed, its balance and details of the mechanical features of the mower have received as close consideration as has the motor itself. If it were possible to dismember this wonderful Motor Lawn Mower before you, you would marvel at the extraordinary thought and study given to the planning of its smallest feature—the infinite care used in the finishing and adjusting of its smallest part—yet its greatest characteristic is simplicity.

Write us now before Spring arrives for full information and a copy of "A Better Lawn."

Manufacturers Distributing Co.
445 Publicity Bldg.
ST. LOUIS, MO.

\$225

F. O. S.
Madison, Wisconsin



Specialty designed for use in Private Estates, Parks and Cemeteries

The "Old Glory" Gladiolus Garden

A selection from choice named varieties and color sections. The bulbs are grown in our fields, selected from our regular stock, and we are sure the "Old Glory" will give you a wonderfully beautiful display this summer.

**One Hundred Select Bulbs; \$2
Delivered to Your Door**

All the new varieties of Gladioli; Dahlias, Gloxinias, Bedding Plants, Roses, Shrubs, Fruit and Shade Trees, Garden and Flower Seeds are presented in our

1917 Seed and Plant Annual

a book of nearly 200 pages. It points the safe way to a garden that will give the greatest pleasure and profit to the planter. Send your name and address for a copy.

The Storrs & Harrison Co.
Box 411 Painesville, Ohio

Three Rarely Beautiful Roses

In this trio of superb Climbing Roses is a whole June-fest of joy for the rose-lover. They are widely different in color and form of flower, but are united in beauty and loveliness. The three were originated and introduced by the West Chester Nurseries—which vouches for the value of this new trio.

Climbing American Beauty. Huge flowers, 4 inches across; handsome rosy crimson; fragrant. Plants are strong growers, covered with flowers.

Christine Wright. A wonderful clear pink Rose usually 4 inches in diameter. Beautiful in bud and flower.

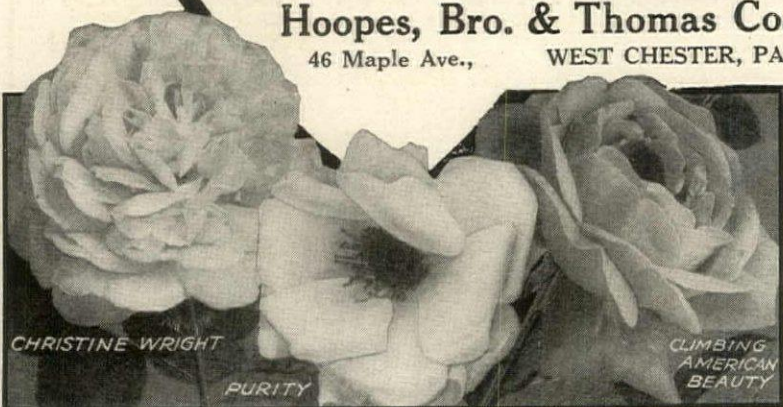
Purity. Pronounced by experts the most beautiful climbing Rose. The broad petals are ivory white, with stamens of bright golden yellow. The flowers are large and borne abundantly on strong plants. Purity is sold in this collection only.

3 Plants, One of \$5
Each, Delivered

"Hoopes' Specialties"

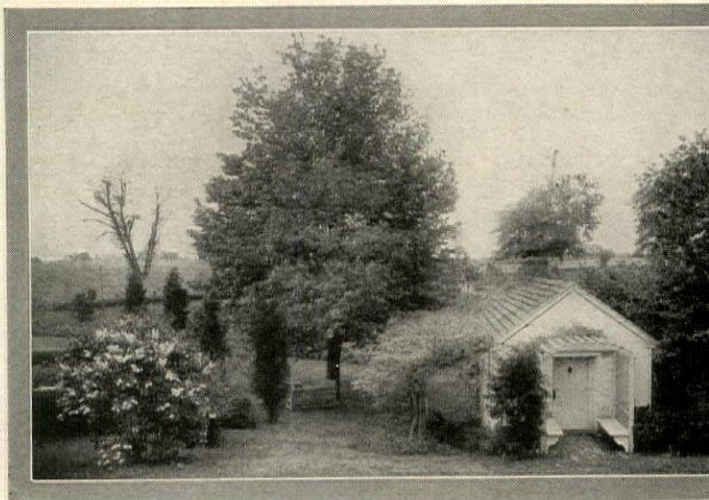
Shows Climbing American Beauty, Christine Wright and Purity in their marvelous natural colors. The booklet is a real aid to rose-growers and lovers of beauty on the home grounds. Send your name and address for a complimentary copy.

Hoopes, Bro. & Thomas Co.
46 Maple Ave., WEST CHESTER, PA.



CHRISTINE WRIGHT

PURITY

CLIMBING
AMERICAN
BEAUTY

Wistaria clammers over the old stone spring-house which been converted from its original purpose into a studio. The garden is to the left of the picture

Tulip Time in the Garden

(Continued from page 64)

green and connected by drooping chains. Every other length between posts now has its grape: Caco—the fine new cross between Catawba and Concord—for a reddish sort, and Niagara for the greenish color. Grape leaves are allowed to grow only scantily on these low vines, as too many leaves would obscure the effect of line and form.

To the north of this walk, throughout its length, grows a line of Thunberg's barberry, and sometime I intend to replace these by Wilson's or some one of the new cotoneasters. These take a space, brick edged on the sides and ends away from the walk, of about 6' x 60', whereas the space of open ground under the grapes across the walk is only 2' wide, with grass at its southernmost boundary. Below both grapes and barberries the ground is entirely covered, or destined to be, with *Vinca minor*, the common green myrtle, a delight in both summer and winter.

CROCUSES AND AFTERWARD

Through this covering of rich green arose last April a host of lovely crocuses, planted in the following order: Pallas, Tilly Koenen, Julia Culp, Mikado, Pallas again, Ovidius, and one touch of the so-called Largest Golden Yellow, making an effect of lovely lavender violet and white with the yellow to give a strong and sudden contrast. Across from it, and just as crocus colors were fading and their delightful leaves making their presence felt, as if unexpectedly sprang into flower long, loose groups of narcissus Sir Watkin, tulip White Hawk, tulip Fred Moore, and the beautiful double early tulip Safrano, leading up to some fair-sized groups of mahonia below the walls of the house. Before and among these shining leaved shrubs rose quantities of the daffodil I now prefer to all others, *Narcissus Leedsii* or White Lady. Its beauty is nothing short of regal; and to use a slang phrase of our English confrères, it is a "good doer."

Following the crocus bloom here came a gay, loose-flung line of blowing flowers in colors ranging from

tawny orange through deep yellow to ivory white—flowers single, flowers double, graceful, flowers round, heavy headed. Little art is needed to gain such effects. The most less planting of these particularities of bulbs must result believably. A little thought for the position of color, a little watchfulness to over-crowding or setting apart—that is all.

But I am in danger of being astray by the beauty of flowers, and must return to the order planting of the walk long to say that when the flowers named have finished blooming, their leaves in turn carpet the in patterns of blue-greens and low-greens, then we begin to the first time the spires of the rounded and symmetric Canterbury Bells on either side walk. These are 3' apart, their buds develop we see they are white upon the south side walk and light purple on the north and a third even row to the of the barberries is all of the pink tone which is to me the best in these flowers. From crocuses to Canterbury Bells is a way in spring and early summer. Yet one must remember that happened to be a green month between flowering periods it itself a thing to revel in, and grossing that the opening of the arrangement of flowers too with an unexpected prospect which gave that surprise which perhaps the dearest gift his can give the gardener.

Does any word other than "come" better describe one's as to the spring? The flow of this enchanting time keeps pressing almost hourly in mind is it an undue use of the imagination to fancy that the reason for the special charm of spring flowers is that the house door is that the that precious word to those who enter? How marvelous that heavenly means of color and grace we may send forth the spirit of our houses even through their gates.



MOON'S NURSERIES

What a Home is Like

is very much in evidence before ever you cross the threshold. Indifference to the appearance of the lawn and grounds is an indifference to public opinion.

JUST as quickly as possible after completing your building, you want your property to have that finished effect which of necessity depends so vitally on the planting for its results. MOONS' know how. Perhaps the secret lies in our methods of frequent transplanting. Possibly in the soil in which the stock is grown. Whatever the reason, MOONS' plantings are so generally satisfactory that those we have served continue to send us customers.

IT pays to buy MOONS' stock. It pays, because the plants are especially selected and freshly dug and packed for each order; have been reared with a care for their vigor of growth and shapeliness of form that make attractive lawn plantings with a permanent accumulative value and enjoyment.

Perhaps one of the reasons why MOONS' plantings are so unparalleled is because we personally are interested in having our customers make selections best adapted to their place, climate and purpose.

Our informative Catalogue No. A-4, with its many illustrations, should be your first guide. Then let our Letter-Aid Bureau help.

**THE
WM. H. MOON COMPANY**
Nurserymen
Morrisville, Pennsylvania

Philadelphia Office
21 South Twelfth St.

The Moon Nursery Corp.
White Plains, N. Y.

Spring Time is Rose Time!

When the tender leaf buds begin to expand under the warming influence of the early spring sun, every true nature lover feels the impulse to plant. And, what is so well worth planting as the queenly rose. Not only are roses unrivalled for charm and beauty, but C. & J. Roses are guaranteed to grow and bloom this very summer. Get our

1917 Floral Guide—Free

Our famous annual brought right down to date. Contains 92 pages, 253 exquisite illustrations—many in colors. Lists nearly 400 "Best Roses for America"—varieties suitable to every climate and soil, also for every lawn and garden purpose. You need this Guide when making your spring time planting list. It's sent free and post-paid. Write today.

"How to Grow Roses"

A delightful handbook for rose lovers. Editor Barron of The Garden Magazine says: "The book is a very thorough round-up of what the amateur wants to know about roses." Library edition; 121 pages—16 in natural colors.

Here are three ways to get this helpful little book: (1) Sent postpaid for \$1.00. Contains coupon good for \$1 with \$5 order for plants. (2) Postpaid for 50c with \$2 order for plants. (3) Sent free of charge with \$5 order for plants. Order today.

The CONARD ★ ROSES
C & Jones Co. Box 126, WEST GROVE, PA.
Robert Pyle, Pres. A. Wintzer, Vice Pres.
Rose Specialists—
Backed by 50 Years' Experience

Give YOUR Lawn Better Care

You, too, can have a smooth, beautiful lawn this summer if you join the ranks of Ideal Power Lawn Mower users this spring.

Proper lawn care in the *spring* counts greatly toward a beautiful summer sward. Start your lawn care *right* this season. Have the Ideal ready for the very first cutting. It eliminates the nuisance of a horsedrawn contrivance on your lawn, or the expense of a squad of hand propelled machines. It enables you to give your lawn *double* the usual amount of attention, more *efficiently* and more *economically*.

The Ideal Junior Power Lawn Mower stands unexcelled in the field of lawn mowing machines. It embodies all the features on which Ideal has built its splendid reputation—simple, reliable clutch; automobile throttle control, gearless differential and many other refinements which make the Ideal easy to operate and simple to care for.

For full particulars write to us—*now*, while making your plans for a beautiful lawn.

The Ideal Power Lawn Mower Company
R. E. OLDS, Chairman
403 Kalamazoo Street,
Lansing, Michigan

Ideal
Junior
Power
Lawn
Mower
\$225

Orinoka

GUARANTEED SUNFAST
DRAPERIES & UPHOLSTERIES

THE welcome sunshine streaming into every room in the house is a joy when Orinoka curtains and draperies are used. Their most delicate colorings never become dim nor the beautiful lustre dull, however powerful the sunlight or frequent the tubbings. Every color is absolutely guaranteed not to fade.

To get genuine sunfast insist upon the name "Orinoka."

There is a fine, wide choice of light and heavy textures, designs and colorings. Write for our booklet, "Draping the Home."

ORINOKA MILLS, 156 Clarendon Building, New York



Are You Looking Forward to a Home of Your Own?

Why not build this Spring? Begin now to collect ideas for the home of your dreams.

When the question of woodwork comes up you may want a dark rich mahogany in the living room, or a warm brown tone. Or possibly your taste runs to dainty white enamel for the down stairs as well as in the chambers above. Again you may favor the popular silver gray for music room or boudoir.

Whatever your choice, the question of "which wood?" for these various effects can be convincingly answered with

ARKANSAS SOFT PINE

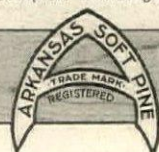
It has proven its durability and artistic possibilities through twenty-five years of service in American homes.

Our homebuilders book, containing eight colonial designs, will give you the "why of it" in every detail while our samples and book of finishing directions, attractively illustrated, will supply the "how of it." We'll send them free. Write today. Architects should have our Manual—sent on request.

Arkansas Soft Pine is Trade Marked and sold by dealers. Yours can supply it.

ARKANSAS SOFT PINE BUREAU
616 Bank of Commerce Bldg. LITTLE ROCK, ARKANSAS
On Display—National Complete Building Exposition, March 5-11

Satin-like



Interior Trim

Antique Desks and Their Appreciation

(Continued from page 25)

a composite affair, combining a cabinet, a bureau, drawers and a writing-table. In Ghirlandaio's painting, "Saint Jerome In His Study," a work dating to 1480, (this is found in the collection of the Ognisanti in Florence), we see depicted a portable desk of the "schoolmaster" type, and still another showing drawers, (of the same date and same collection) is in the "St. Augustine" by Sandro Botticelli. In other paintings by the old masters and in very early engravings we see delineated the various pieces of furniture in contemporary use designed for writing-purposes, as well as others for the account-keeper. All these suggest to us the probable units which combined to produce the *écrivain* and the *secrétaire* of later centuries, and lend interest to the collector's enthusiasm for searching out pieces of the sort.

THE OLD CONDITIONS

When living was so much less complex in the matter of domestic doings than it is in our own time, there was far less need of such objects as desks. Whole families, even of the prosperous classes, could get along without them very well. Your Mona Lisa of the Renaissance could have carried her household accounts in her head, and probably did, while Frau Martin Luther or Frau Albrecht Dürer had little occasion to require a place for keeping quires or reams of correspondence paper. Nor had they, in all probability, entered into the sphere of feminine prowess in home banking matters that made necessary a writing-bureau sacred to their personal command.

The finest examples of the craft of the master cabinet-makers of the



The commoner design in American desks was above. Made originally in the late 18th Century of mahogany, with reversed serpentine front.

17th and 18th Centuries were finally produced for wealthy people who paid well for the master's work. While such pieces must naturally be beyond the reach of the collector of moderate means—except in rare instances where complete ignorance of their value is combined with a taste to part with them—they are always interesting to note, and of them have been reproduced with wonderful skill by some of the best masters of the craft of furniture making today.

Of course, no reputable dealer would attempt to pass off a modern copy as anything as an original. At the time one may take great pleasure in acquiring a truly fine copy of a *secrétaire* or a Heppelwhite bureau, if it is knowingly purchased as a copy, whereas if deception is practiced, the result must be a disappointment and discouragement to the owner, however fine the piece.

ANTIQUING ANTIQUES

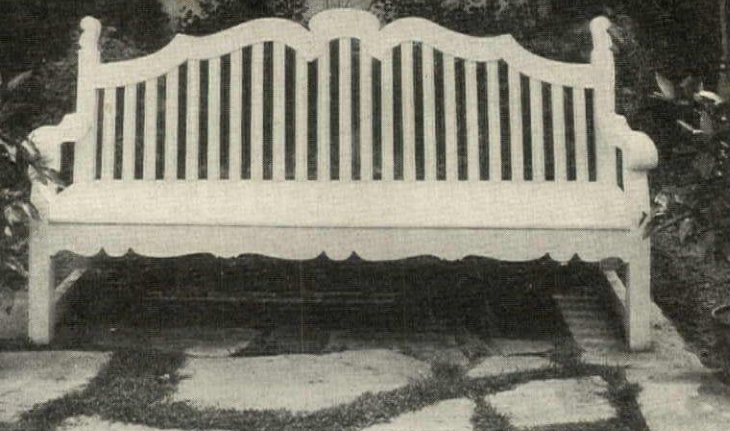
Unfortunately, all dealers are not reliable and much fraud is practiced in connection with antique furniture. Even the metal trimmings, handles, etc.—are given the appearance of antiquity by all sorts of

vices at the command of the fraudster. In this connection it is interesting to see Grace M. V. has to say in an interesting volume "First Steps In Collecting"—"To the professional collector a bright new handle does not appeal. He knows they give away at once. He has many ingenious devices, some simple, some complicated, to take to the brand. Birmingham handles and plates necessary look old age. Acid is largely used, and insure the rounded edges, they are into a cylinder. Large number together—and the instrument is made to revolve until constant friction (Continued on page 70)



A simpler form of American style of Heppelwhite tambour desk was made between 1760 and 1820. It is of mahogany inlaid with satinwood.

Treasure-Trove



To the garden lover—and especially to the man or woman who appreciates the contrast of Nature's beauties with the best of man-made art—the

Mathews GARDEN-CRAFT

handbook.—72 pages in all—is a veritable treasure-trove of attractions. Where one reader finds a dainty French trellis for a garden screen, another finds a staunch, wholly-English bench of good Queen Anne's time that fits a cozy nook in the shrubbery. Best of all both trellis and bench are accurate reproductions of Old World originals. Arbors, tables, swings, gates—even bridges and Japanese pagodas are included in this remarkable catalog. It is gladly sent anywhere on request, on receipt of eighteen cents in stamps.

The Mathews Hall-Mark, shown below, is a guarantee of design and authenticity and a pledge of careful craftsmanship. Every piece of Mathews Garden-craft is given this mark.



The Mathews Mfg. Co.

912 Williamson Bldg.,

Cleveland, Ohio

BEFORE YOU BUY A FOOT OF LUMBER

FOR ANY PURPOSE, big or little, indoors or out, in city or country,

Write for the proper volume of **The Cypress Pocket Library. (Free)**

Backed by our "All-Round Helps Department," it is the "guide, counselor and friend" of **ALL THE PEOPLE WHO CARE WHAT VALUES THEY GET FOR THEIR LUMBER MONEY.**

Why not buy WOOD with the same discrimination you apply to other things? We do not advise CYPRESS for all uses, but *only* where it can *prove* itself "the one best wood" for your use.



- 1 You don't tell your broker: "Buy \$10,000 of Railway stocks!" Hardly! You tell him *what*.
- 2 You don't simply tell your Real Estate agent: "Buy me some land!" You tell him *where*.
- 3 You don't tell the dry goods clerk: "I want 8 yards of cloth!" You say "silk," "wool," or "linen."
- 4 You don't merely order "200 head of live stock!" You specify Horses, Cattle, etc., and the *Breed*.
- 5 You don't tell the contractor: "Build me a house! — and paint it!" You dictate the plans. And the *colors*.

WHY NOT BUY LUMBER WITH EQUAL CARE? INSIST ON CYPRESS—"THE WOOD ETERNAL." WRITE AT ONCE for VOLUME ONE of CYPRESS POCKET LIBRARY with complete list of the 42 volumes and unabridged U. S. Government Report on CYPRESS, "THE WOOD ETERNAL," and select the volume that fits your case. We'll Reply at Once. When Planning a Mansion, Bungalow, Pergola, Pasture-Fence or Sleeping-Porch, remember—
"With CYPRESS you BUILD BUT ONCE"

Let our "ALL-ROUND HELPS DEPARTMENT" help YOU. Our entire resources are at your service with Reliable Counsel.
SOUTHERN CYPRESS MANUFACTURERS' ASSOCIATION
1210 Hibernia Bank Bldg., New Orleans, La., or 1210 Heard Nat'l Bank Bldg., Jacksonville, Fla.

INSIST ON CYPRESS AT YOUR LOCAL LUMBER DEALER'S. IF HE HASN'T IT, LET US KNOW IMMEDIATELY.

Eliminate All Troublesome Attention To The Heating Plant

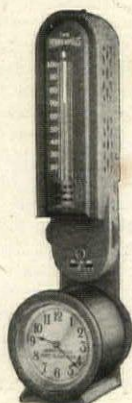
This device takes complete charge of the drafts and dampers of any kind of heating plant, burning coal or gas. Its accurate operation insures even, healthful temperatures at all hours of the day and night. The adjustment of the clock attachment enables one to secure automatically and silently a change to lower temperature during the night hours and in the morning at the desired hour operating for a return to warmer temperature insuring comfortable rooms at the time of arising.

The "MINNEAPOLIS" HEAT REGULATOR

is entirely automatic at all times—a marvel of convenience. It guarantees a safe, economical heat. Has been the standard device for heat regulation in the home for 32 years.

Easily installed in any home, old or new. Sold by the heating trade everywhere.

Write for interesting booklet.



Minneapolis Heat Regulator Co.

2785 Fourth Ave. So.

Minneapolis, Minn.

This book shows in true colors some of the most beautiful rugs in the world and tells you what it has taken me years to learn about

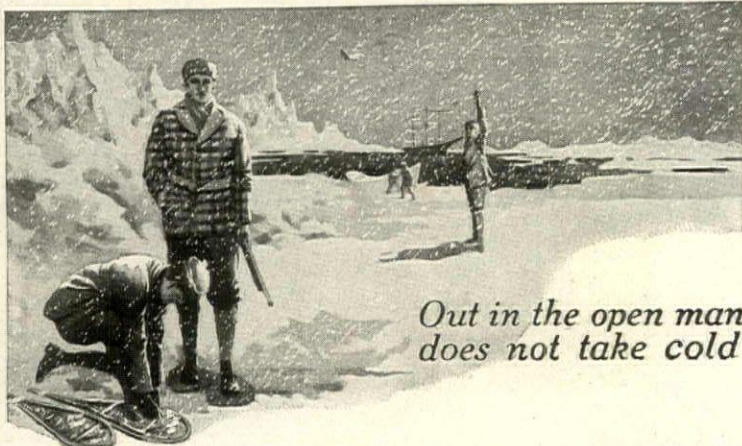
WHITTALL RUGS

Send for it today

Address

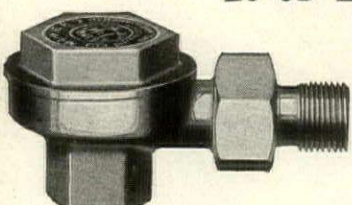
M. J. WHITTALL ASSOCIATES
311 Brussels Street
Worcester, Mass.





*Out in the open man
does not take cold*

The cause of cold is not COLD It is HEAT



DUNHAM Radiator Trap

This device is one of the fundamentals of the DUNHAM VAPOR HEATING SYSTEM. Because it makes impossible the presence of water in radiators, it prevents their pounding and knocking, reduces fuel consumption, causes the radiator to heat evenly and quickly, eliminates the hissing air valve and spurting water.

COLDS are bred in your very home. The results of imperfect heating breed them. But where Dunham Vapor Heating is, there exists none of the unhealthy conditions that foster colds.

Instead, the air in every room is fresh and warm. An even, genial heat pervades the whole home. Radiators do not—cannot—knock or pound. Temperature is automatically kept at either one of two predetermined levels. And all with minimum attention and unusual coal economy.

A little more costly to buy than old-fashioned, faulty equipment, the Dunham Vapor Heating System is worth more—in both material value and service. A steam fitter can Dunhamize a new or an already-built home. Write for full information immediately. Ask for a free copy of our invaluable book, "The 3 H's."

The DUNHAM VAPOR HEATING SYSTEM

C. A. DUNHAM COMPANY, Marshalltown, Iowa
DIVISION SALES OFFICES: Chicago, New York, San Francisco

Boston	Birmingham	Indianapolis	Davenport	Fort Worth	Salt Lake City
Rochester	Pittsburgh	Louisville	Des Moines	Dallas	Spokane
Albany	Cleveland	Milwaukee	St. Louis	Denver	Portland, Ore.
Philadelphia	Detroit	Minneapolis	Kansas City	Cheyenne	Seattle
Washington, D.C.					Los Angeles

C. A. DUNHAM CO., Ltd., Toronto, Canada

BRANCH OFFICES:

Halifax	Montreal	Ottawa	Winnipeg	Vancouver
---------	----------	--------	----------	-----------

Antique Desks and Their Appreciation

(Continued from page 68)

the sharp edges are disposed of, and something approaching the softness of old age is attained. After treatment in this manner the contents come out very passable 'antiques.' This is very clever and in no way wrong unless done with the intention to deceive. There are not nearly enough old handles to 'go round' and honest dealers employ these means to make imitations quite legitimately, only they tell you that, old as they look, they are only clever deceptions."

The general furniture collector will not now be apt to come across anything in the way of a "find" in a desk of the Renaissance, 17th or even early 18th Century Italian periods, or in the way of the finer pieces of other early Continental furniture, as nearly all of these, if not in public or great private collections already, would be justly held at very high prices by dealers into whose stock such pieces might come. However, there are occasional sales—there have been some very important ones at auction in New York this winter—of old foreign household furnishings, and great bargains may well be met with at these now and then. In any event, the collector must cultivate alertness, decision and an intuition for opportunities to buy,—and once in a while to sell, too!

To the European, the name bureau, from its French derivation, is understood to be connected with writing. In America we connect the term with a piece of furniture designed to hold articles of clothing in its various drawers. It was somewhere about the middle of the 17th Century that the drawer was added to the lower part of the chest. Later in the century further drawer capacity was developed, and by the beginning of the next we find the complete chest of drawers in use. In view of this we will not expect to find Jacobean desks, though we may find cabinets for writing materials and documents and even occasional desk-like pieces.

WILLIAM AND MARY TYPES

In the William and Mary Period (1688-1702) cabinets, secrétaires and bureaux came rapidly into use. The furniture of this period has been characterized by Macquoid as "attractive through simplicity of shape and quiet elegance of design." The desks displayed distinct characteristics which differentiate several groups. The cabinet with bracket (straight) feet or bun feet; a whole front flap, which when let down displayed the drawers and the pigeon-holes; a top either single-hooded or straight with ovolo frieze may be placed in the first division. In the second division we have the bureau-bookcase with its slant-top desk plane. Here we find the taller desk styles, sometimes with double-hooded tops, with or without vase-shaped finials. The third division includes the narrow slant-top desks on cup-turned legs, flat stretchers and bun feet. The knee-hole desks (desks with center portion arranged to permit the knees of the writer to go below the desk plane) constitute the fourth division, while a fifth sort of desk had gate-legs braced by serpentine flat stretchers. The center two legs, (there were six in all), pulled out as a support for the desk flap when its plane was let down.

In writing of the desks of the William and Mary period and of the Queen Anne period succeeding, two English authorities, Blake and Reivers-Hopkins, make the following in-

teresting observations: "We back upon the Elizabethan time the Renaissance period of English literature, but even then the latter were in the minority. By the end of the 17th Century literature had spread to the middle classes, and we find the Press pouring out countless popular volumes on every imaginable subject. It is the age of the diary, conspicuous amongst whom Samuel Pepys and John Evelyn whose gossipy daily journals were so intimately in touch with the political and social life of the period. It is the age of the pamphleteer, essayists whose effusions led to the semi-satirical periodicals of the early 18th Century—chief among them being the *Spectator*, started by Joseph Addison and Richard Steele in 1710. This vast outpouring of literature called for more commodious writing-desks, and the *écritoir* bureau is the natural result. The other furniture of the period, desks were solid and dignified, the main they were severe in outline but generally reflected the prevailing architecture of the period, which derived from the Italian Renaissance. We find the desks often surmounted by finely moulded, boldly carved cornices and broken pediments. The Dutch influence grew with the lower portions containing colossal long drawers with rounded *bombé* fronts. The principal material used was walnut, sometimes and sometimes veneered on oak or pine. We also find the same scheme in marquetry work, as in the of drawers, cabinets and clock-cases showing Continental influence."

The furniture makers of the time of George I were beginning to demand, and to supply it, for writing tables with tiers of drawers at side of the "knee-hole." From 1720 mahogany entered into furniture making extensively. Its use in the American furniture makers of the Colonies was coincident and possibly antedated, largely which had been the rage and fashionable fad continued to the popular favor.

STYLES BY CHIPPENDALE

Of course, no writing furniture more eagerly sought than that of Chippendale. There were the ing-tables with *bombé* fronts, the bureaux, standing on legs that supported low bases, the bureau-bookcase style of desk, the slant-top desks, etc. In American desks of the period we find the block-front style very popular.

The writing furniture of the late 18th and early 19th centuries. Brothers Adam exhibited the same quality and excellence common to their other articles. They introduced the more general use of satinwood and others of the lighter colored woods, and a contour of line in design that struck a new note. Plain ornament, too, was more extensively used by them than ever before in English furniture.

With the furniture of Heppelwhite we find the three section bookcase in vogue, and the pull-over (tambour) which was ancestor of the modern roll-top. The Heppelwhite desks are in great variety of much beauty and practicality as well. Sheraton included in his desks all the forms brought into fashion by Heppelwhite or modified by him. All these various patterns were reflected in American conditions and variations.



CALLOWAY POTTERY Doubles the Garden's Charm



Bird Bath
No. 693
24" w
25" h
\$20.00

Classic Simplicity is typical of the many beautiful designs in our Collection

Calloway Pottery is everlasting Terra Cotta, made in a variety of forms, including Bird Fountains, Sun-dials, Flower Pots and Boxes, Vases, Benches, Gazing Globes and other interesting pieces that recall the charm of Old World Gardens.

Catalogue will be sent upon request

CALLOWAY TERRA COTTA CO.
3218 WALNUT ST. PHILADELPHIA



Underground System for Lawns



Rain Cloud Nozzles
\$2.00 to \$3.00
f.o.b. N. Y.



Overhead System for Gardens

Rain When and Where You Want It Cornell Systems of Irrigation

CORNELL Overhead and Underground Systems equipped with patent adjustable Rain Cloud Nozzles provide thorough, scientific, economical and effective irrigation where and when it is wanted and do away with the inefficient and troublesome garden hose.

Cornell Systems are inexpensive and economical in operation and represent a distinct saving in water consumption and cost of labor, by reason of even distribution and simplicity of control, the turning of a valve being the only operation. They can be

installed at any time without injury to lawns or gardens. Our systems have no unsightly overhead piping to mar the landscape.

Our services include a survey of your property, together with plans and estimates covering the complete installation of our systems—also water supply and pumping plants. We also manufacture portable sprinkling apparatus to cover areas of from 25 to 85 feet in diameter.

Write today for illustrated booklet.

W. G. CORNELL COMPANY

ENGINEERS AND CONTRACTORS

Union Square

CHICAGO
Railway Exchange

Plumbing, Heating, Lighting, Automatic Sprinklers, Water Supply
Systems, Sewage Disposal Plants, Automatic Sewage Ejectors.

NEWARK
86 Park Pl.

BOSTON
334 Shawmut Ave.

CLEVELAND
Leader-News Bldg.

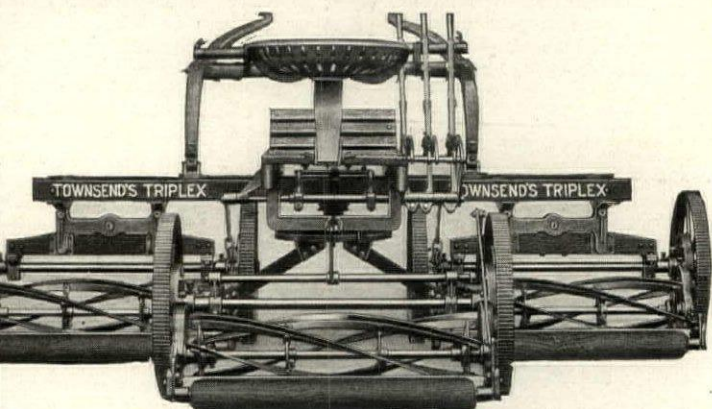
WASHINGTON
923-12th St., N. W.

New York

BALTIMORE
Munsey Building

TOWNSEND'S TRIPLEX

The Greatest Grass-Cutter on Earth
Cuts a Swath 86 Inches Wide



floats over the uneven ground as a ship rides the waves. One mower may be climbing a knoll, the second skimming a level and the third paring a hollow.

Drawn by one horse, and operated by one man, the TRIPLEX MOWER will mow more lawn in a day than the best motor mower ever made, at it better, and at a fraction of the cost.

Drawn by one horse, and operated by one man, it will mow more lawn in a day than

any three ordinary horse-drawn mowers with three horses and three men. (We guarantee this.)

Does not smash the grass to earth and plaster it in the mud in springtime, nor crush out its life between hot rollers and hard, hot ground in summer, as does the motor mower.

The Public is warned not to purchase mowers infringing the Townsend Patent No. 1,209,519, Dec. 19th, 1916

Send for catalog illustrating all types of Townsend Lawn Mowers

P. TOWNSEND & CO., 17 CENTRAL AVENUE
ORANGE, N. J.

The Iris

The Loveliest Border Plant
in the Whole World

Perfectly hardy. Unexact-
ing in its requirements. The
entire plant is decorative
with handsome leaves and
flowers of elegant form, ex-
quisite texture, wonderful
and varied coloring. For a
trifling initial cost, one may
have a bed or border that
will last forever and in-
crease in beauty from year
to year.

In our collection we number
165 of the best varieties and
species obtainable from
America and Europe. It in-
cludes bearded and beard-
less German, Japanese, Si-
berian, Interregna and
Pumila. A selection from
these will give a succession
of bloom for many months.

For \$1.50 we will send you
this beautiful collection.

Actual value \$2.00.

Collection A. Tall Bearded Irises

Madame Chereau, white bordered
blue
Celeste, pale sky-blue
Queen of May, rose
Jacquiesiana, fawn and reddish vio-
let
Foster's Yellow, creamy yellow

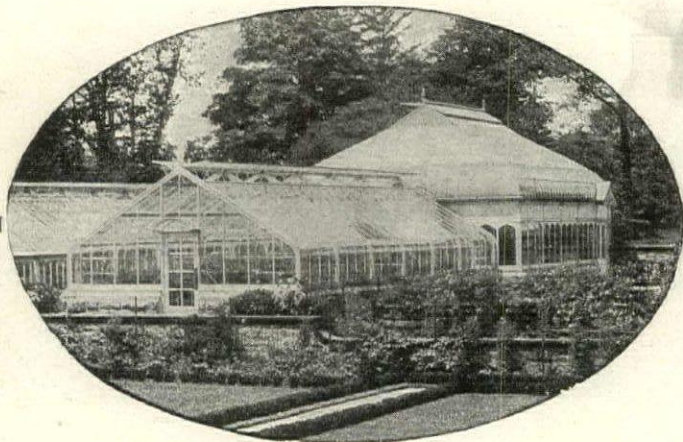
MADAME CHEREAU
Pure white with ruffled border of blue

Kochii, deep claret
Mrs. G. Darwin, pure white
Violacea Grandiflora, bright violet
Honorabilis, mahogany and gold
Queen of Gypsies, dead leaf and
dusky yellow

Write for Our New Catalog

It describes our Irises, Gladioli, Paeonies, Cannas, Hardy Phlox, Dahlias and many other plants and bulbs. It also lists all kinds of flower, field and garden seeds.

THE WING SEED CO., BOX 1427, MECHANICSBURG, OHIO



"All plants, of every leaf, that can endure
The winter's frown, if screen'd from his shrew'd bite,
Live there and prosper."—Cowper.

LUTTON GREENHOUSES

Transform Winter's Frown to Summer's Smile

In them you can indulge in the most fascinating of all horticultural hobbies—under-glass gardening—with the assurance that you will get big dividends in enjoyment as well as in money value.

LUTTON Greenhouses are warmly recommended by owners, architects and gardeners for their high architectural standard and practical, efficient design. Let us quote you a few opinions from your locality.

If you are contemplating buying a greenhouse we can show you how to save considerable by buying a smaller house and installing LUTTON COLD FRAMES with it for starting your plants; or, if you already possess a greenhouse, you can greatly increase its growing capacity by using these frames.

"Spring unlocks the flowers to paint the laughing soil."
But why wait for Spring?
Steal a March on April's Showers
by planting your flower and vegetable seed at once in

LUTTON MINIATURE GLASS GARDENS

Your garden will be yielding its bounty weeks ahead of your neighbors'. Tomatoes planted in these frames *now* will be ripe in June, while the green fruit of plants started outdoors will be no larger than a walnut. Twenty or more varieties of vegetables can be raised by the amateur in Miniature Glass Gardens.

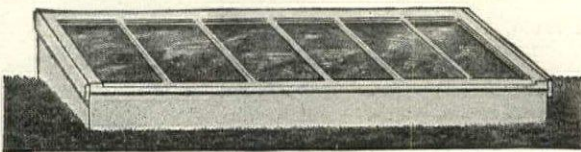
As you can regulate the temperature within LUTTON Miniature Glass Gardens, transplanted stock is healthy and hardened against the sudden changes that ruin seedlings grown in any other manner. Thousands are in successful operation all over the country, and no garden will produce its best results without them. The prices are remarkably low considering present high cost of materials and labor. Send your order today. *Prompt shipment and satisfaction are guaranteed.*



Special No. 3
Diminutive Greenhouse
covers 40 sq. ft. of garden space

High enough to receive fairly tall plants. Six large lights of extra heavy glass to each sash. Hinged at top. All ready to put together in a few minutes. Portable, strongly made, neatly finished. Carefully packed. Price, complete, freight prepaid anywhere in U. S. East of Mississippi.

Price Delivered
\$23.00



Special No. 2 Improved Hot Bed Frame covers 21 sq. ft.

Over 8 ft. long and wide enough to fit in a 3 ft. space. Sash has 6 large lights of extra heavy glass. Carefully packed; easily set up. Price complete, freight prepaid anywhere in U. S. East of Mississippi. This is a fine frame for the beginner as well as advanced horticulturist.

Price Delivered
\$12.00

Catalog covers all types of glass gardens and has valuable information on gardening under glass. Write for a copy today.

WM. H. LUTTON CO.

MAIN OFFICE AND FACTORY, Jersey City, N. J.

SHOW ROOMS, 3rd Floor,
Grand Central Terminal, N. Y. City

WESTERN OFFICE,
710 Sykes Block,
Minneapolis, Minn.

Horticultural Architects and Builders of All Kinds of Modern Glass Structures



Photograph by Wurts Bros.

Informality and intimacy should characterize a walk such as this. How much the flowers between the stones contribute to this desired result is suggested by a comparison with the photograph below

The Flower in the Crannied Walk

(Continued from page 17)

shadows, no changing lights to break flattened fieldstone are in the monotony. Such a walk is pictured at the beginning of this article. More satisfactory, perhaps, Visualize it shorn of its crevice planting—you see what the result would be, don't you?

But enough of generalizing. What matters most is just what to plant and how to plant it.

In almost every walk of flag or

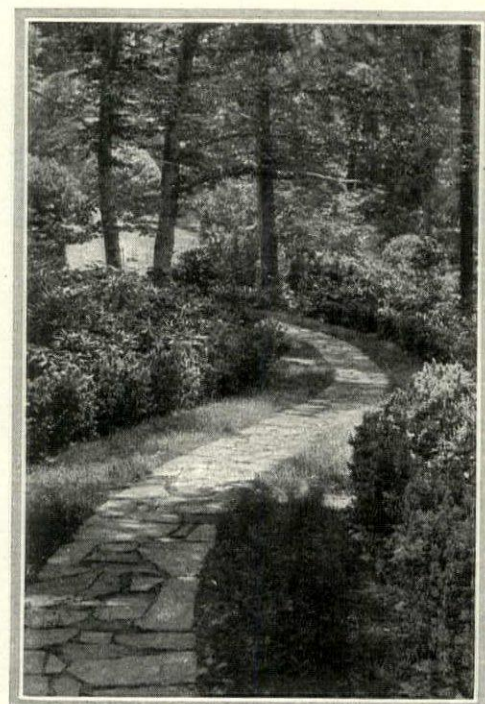
where rock plants may be special provision for certain can be made, is the walk laid with a definite thought for planting. Here spaces of 1 or 10" can be left, especially sides, which will subsequently be filled with plants. In the case

flowers here listed, particular type of needed if it is well and reasonably feasible.

For reasons too obvious to need mention the best plants are from that large list of considerations of and adaptability has designated as suitable the regular rock. The charmingly white rock cress (*Albida*) is a good choice for the edges, as a rock madwort (*A saxatile compactum*) its mass of little blossoms in April, May, and saxifrage (*Tunica saxifraga*) is blossomed in the summer.

These three, with Breath (*Gypsophila*) and rose (*Portulaca grandiflora*) will give variety to the dense effects. For contrast, I know of more charming than own ethereally daintiness columbine (*A. Canadensis*), rising and there in clumps.

(Continued on page 18)



Photograph by Gillies

A fit subject for the planting of some of the more truly woodland flowers such as crane's bill and bluebells



THE Garden Most Beautiful

will include our

RADIANCE ROSES RHODODENDRONS and LILACS

A Matchless Glory of Delicate Color, Set Off by Deep, Rich, Foliage, on Hardy, Symmetrical Bushes.

RADIANCE ROSE received the SILVER MEDAL

of the American Rose Society. That tells the story complete, and it is the BIG reason why YOU should have it on YOUR estate.

"Radiance" is a superior American hybrid Tea. The open flower, brilliant, rosy carmine, with opaline tints, large, has cupped petals, and approximates the exquisite form of the La France.

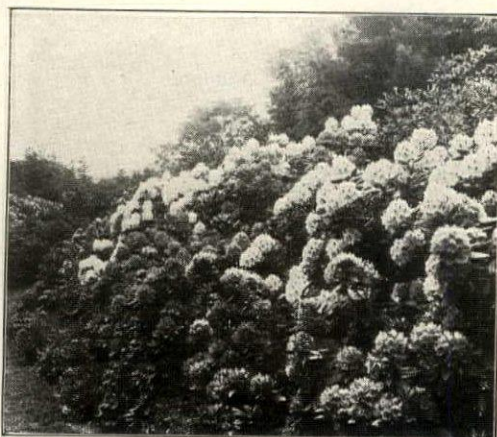
Plants extra strong, two years old, cut back to 18 inches, and will bloom freely THIS NEXT SUMMER.

\$1.00 each; \$10.00 per dozen.

RHODODENDRONS

With their huge flower clusters in Pink, Violet, Rose, purple, and Delicate Creamy White, are the Premiers for lawn decoration.

Their Beauty Lasts! Long after the flowers are gone, the deep, rich green foliage saves your landscape beauty from the desolation of winter.



LILACS

The Theme of Song and Story, bring the atmosphere of the "Old Homestead" to your estate.

Over wide areas their delicate scent perfumes the air, and their profuse, graceful blossoms, with gorgeous, changing tints, are matchless for floral decorative effects.

All our varieties thrive in any fertile soil, and can be used singly, massed, or in groups to produce the effect desired.

Our Lilacs are superior to the old varieties, being specially bred for beauty of plant form and loveliness of flower. 12 choice varieties.

Detailed instructions for planting and care, with each order.

Write for 1917 Catalog and Planting Guide, which includes Trees, Shrubs, Evergreens, Roses and other Flowers. Fruit and Nut Trees, Berry Bushes, and all varieties of Fine Nursery Stock.

GLEN BROS., Inc., Glenwood Nursery (Est. 1866) 1751 Main St., Rochester, N. Y.

NITRO-FERTILE

Trade Mark

WITH WITHOUT

Put two tablespoonfuls in a gallon of water. Sprinkle it on the soil around shrubs, plants, or grass and you can see the growth in 3 to 10 days.

Such results would be unbelievable if not vouched for by prominent growers and seedsmen in Cleveland, where it has had 3 years' thorough trial.

Nitro-Fertile is an odorless liquid, containing all the elements needed for plant growth in a form which the plant instantly assimilates. It will stimulate immediate and sturdy growth, give you better foliage, finer blooms, larger fruit.

NITRO-FERTILE

Trade Mark

TRIAL BOTTLE, 35c Postpaid



Half pint bottle enough for 15 gallons of fertilizer for 25c and name of your dealer. Try it now on house plants or seedlings.

Order a small quantity NOW—You will come back for more.

1 Gal. \$2.00—1 Qt. 60c—1/2 Pt. 25c at your dealer's.

Dealers Wanted in Every Town

The Fertile Co.

1009 Leader-News Bldg. Cleveland, Ohio

LIME-FERTILE

"The Soil Builder"

Trade Mark

A combination of active plant foods with just enough lime and phosphate to sweeten soil and keep it productive. A complete fertilizer.

Cans, 25 lb. and 100 lb. bags.



How to Choose Fine Trees

YOU who love trees for their own beauty or value them for the charm they lend to roadside and lawn, must have often wished deeply for a more friendly knowledge of how to choose and group them best, how to improve the outlook from your windows or make more attractive the approaching vistas of home.

This, then, is to say that at last a book has been written which tells just what you want to know about trees. It is the new catalog of the well-known ornamental trees and shrubs grown at Andorra Nurseries.

"Suggestions for Effective Planting" tells what trees are best adapted by nature for each garden and landscape, what shrubs and trees most effectively group together.

And all this is so beautifully illustrated and conveniently arranged that it is as interesting to read as your favorite magazine. It is not the usual mechanical, deadly dull nursery list. To read it is like going around the grounds with an old, experienced gardener and discussing in a friendly way what the place needs; what evergreens to screen the foundation, what will look best along the driveway or against the ell of the house.

This book is free for the asking. We have one all ready to address with your name. Send your request to Box 120.

Andorra Nurseries

Wm. Warner Harper, Proprietor
Chestnut Hill, Philadelphia, Pa.

The Flower in the Crannied Walk

(Continued from page 72)

but a few stems each, and crowned with fragile looking blossoms of coral and yellow.

Suitable also for the more used parts of the walk, because of their lower habit, are rock speedwell (*Veronica rupestris*) and snow-in-summit (*Cerastium tomentosum*). Moss pink (*Phlox subulata*) makes a splendid third, perhaps the best of all.

All of these do best in abundant sunshine, though most will succeed except where really shady conditions prevail. On the woodland walk where full sunlight is at a premium, such shade-loving species as blood-root (*Sanguinaria Canadensis*), blue-

bell (*Campanula rotundifolia*) wild crane's bill (*Geranium montanum*) are valuable additions. If they are desired in addition, let there be of such comparatively low growing sorts as *Cystopteris bulbifera*, *fragilis*, *Phlegopteris Dryopteris*, *Ph. polypodioides*.

There are others, of course—always are in any sort of garden. You may vary my list at will so long as you remember the peculiar requirements of the case and hold ways in mind that paraphrase the successful flower experimenter: "wont to apply to untried things."

"It's pretty, but will it grow?"

The Plunder of the Past

(Continued from page 31)

different. One feels that the bidding has at last left the sphere of the absurd, and the danger of any abrasion of his personal susceptibilities is past. But his tone is slightly petulant, evinces something of the attitude of mind of the fashionable woman who has just been saved from falling off a high cliff by a violent jerk which throws her hat most ungracefully over her eyes. One realizes that although he has been saved from the worst he is not quite happy over it. He prefers a conquest to a rescue.

A gentleman of seeming Oriental extraction, who has been examining the figure on the table, ceases to twirl his heavy moustache and lifts his index finger an inch in the direction of the auctioneer.

"Two twenty-five, two twenty-five, two hundred and twenty-five dollars I am bid for 53 A in the catalogue."

He will have no mistake about it. The bid is \$225 for Lot 53 A, the little bronze girl who has been laughing for nearly three centuries in defiance of all rational records of risibility, and who was very nearly sold for ten dollars to the first bidder. The dealer propped against the cabinet will make no further sign, his eyebrows are motionless; the two other bidders steadily refrain from batting a lash or twitching a catalogue.

Around the big chamber the auctioneer's gaze travels steadily, searching optimistically, nay, confidently.

"Two hundred twenty-five, two hundred twenty-five."

There is the merest trace of finality in his tone, contradicting the confidence of his gaze; after all, he is human, and two twenty-five is really the end.

"Two twenty-five, two twenty-five, fair warning and last call, two twenty-five—SOLD."

Down comes his pencil—not a hammer—and the bronze virgin is the property of the man from the East. Let us hope he will be good to her.

* * *

A dagger was sold in New York the other day, an antique damascened dagger of bloody history: made in amorous Venice before Shakespeare was born, to the order of some high, impetuous spirit.

The man who bought it was of Tennessee. He wanted something to show the folks at home, and this dagger he bid for and bought at one of the notable auction rooms; got it very reasonably, too.

Newspaper reports give one the impression that the only people who buy antiques and objects of art are the millionaires, and the dealers.

The impression is misleading. Millionaires and dealers have not the cash nor the accommodation to purchase and house a quarter of the relics sold in New York every dozens of important collections under the hammer annually.

Who buys these old, beautiful things?

George does, Dick does, John does, the plain men of business, Tennessee, from Yonkers, from coming, from Flatbush. For they have been meaning to pick real antique or two, and if you tend the big sales you can find a few of them crystallizing intention into action.

Nor does the average man buy wisely than the millionaire. The latter is no more a connoisseur of divine letters patent than the first is a Philistine by reason of his fortune. The millionaire buys what strikes him, like even else, and he is imposed upon less often than you would think. His purchases may be more in size than the man from Tennessee, but they are not more genuine.

* * *

Taking it by and large there need or cause for sharp threats in the antique market, the supply is so considerable. The yield of six slow centuries in Europe steadily coming under the hammer. Inevitably the sardonic truth upon one that it is an ill wind blows no one any good.

Not much noise is made about the average man's purchases of antiques, yet the total sum he spends in is immense. Figures are not available, but here is a fact that comes some idea of the popular interest. Recently eight hundred people through one auction gallery in New York; the large majority of them were not professionally interested in antiques, but at the sales of the collection they spent between scores of thousands of dollars. Individual purchases frequently over well under the fifty dollar mark.

What is the inwardness of this strange fascination of ancient things for human beings? It is not the appeal of beauty; many are the ugly to our eyes, or at least grotesque. It is rather that the sharp potion to the imagination, men, that they afford sweet food from the perpetual hard logic of business, and give deeper thrill to those of the modern novel.

The glamour of medieval times in that rich plunder of the past, the walls and counters of the metropolitan auction galleries. One may catch tales of days and as strange as dreams, tales.

(Continued on page 76)



From an original oil painting
Made especially for
The Lowe Brothers Company
by B. Latham Kidder,
Of New York.

Lowe Brothers HIGH STANDARD PAINTS

These paints of proven performance show their quality by their looks, life and wear.

Results have proved their certain economy.

Our beautiful book "The House, Outside and Inside,"—enlarged color plate edition—mailed promptly on request. State whether interested in outside or inside decoration.



The Lowe Brothers Company

464 East Third Street, Dayton, Ohio
Boston · New York · Jersey City · Chicago · Kansas City · Minneapolis
Lowe Brothers, Ltd., Toronto, Canada

BLINDS WILSON AWNINGS

Solve the problem of Light and Shade in the Home. Beautiful—Efficient. Keep out the Sun and let in the Air.
Write for illustrated book

J. G. WILSON CORPORATION

8 West 40th St., NEW YORK



If You Love Your Garden

WRITE for our catalog of plants, trees and flowering shrubs. It tells you what to plant and where and when and how. Shows how to get uninterrupted joy from your garden from spring till winter. Brings Wagner Landscape Service to your assistance in solving difficult planting problems.

We have tried to make it the most helpful manual ever published for the home garden maker. A copy will be sent free on request. Write for catalog 57.

WAGNER PARK NURSERY CO.
Box 922 Sidney, Ohio



Hardy Perennials

Why not start this spring and make a collection of the more desirable groups of these old-fashioned garden favorites—a selection that will assure you of flowers throughout the season:

For early summer flowering—June Pink, Foxgloves, Campanulas, the gorgeous Poppies, Peonies, German Iris, and some of the choice Long-spurred Columbines.

For mid-summer—Delphiniums in choice hybrids and named kinds, the stately Anchusas, Shasta Daisies, Japanese Iris, Pyrethrum, the new Astilbe Arendsi type in fine varieties, Veronicas, and Phloxes.

For early fall—Phlox in handsome varieties, Helianthus, early-flowering Chrysanthemums, Hardy Asers, Japanese Anemones, and Hardy Lilies.

For late fall—Hardy Chrysanthemums predominate in the garden. We have a splendid collection of varieties, tested for hardiness here in New England. Then there are some late-flowering Asters, Japanese Anemones, and the Phloxes making their second display.

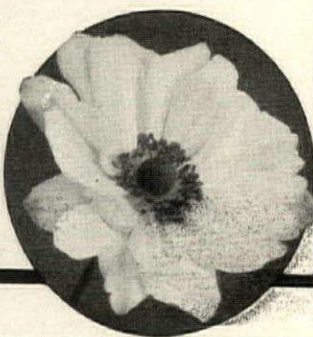
Cromwell Gardens Plant Catalog

edition of 1917, has been revised to include the newest perennials, roses for garden and house, shrubs, evergreens and shade trees. We will be glad to send you a copy on request.

Cromwell Gardens

A. N. Pierson, Inc.

Box 14, Cromwell, Conn.



Your Last Chance to get the Old Price on Mc CALL'S MAGAZINE

For nearly fifty years you have paid 50c a year for McCALL'S MAGAZINE. Now the price must go up. Paper, ink, type, engraving—everything costs more. So that McCALL'S costs nearly twice as much to print as it did a year ago.

To you who did not know of this, we give this one more chance to get McCALL'S at the old price. Send coupon below on or before March 31st and you can have McCALL'S for one year for 50c although it is now 10c a copy on the newsstands.

Join the 1,300,000 women every month who turn to McCALL'S for their fashions, for patterns, for economical buying, for fancy needle work, for good stories—for pleasure, for help, for style.

Fifty Years of Fashion

It is not silks or satins or plumes that make a fashionable woman. It is the one little clever touch of style, of TASTE. You have the taste. Get the style from McCALL'S.

The woman who desires to dress well and to save money is our first problem, and before her we place every new fashion whisper from the world's fashion centers, in McCALL'S MAGAZINE—McCALL'S Fashions, McCall's Embroidery, and McCall's Needle-work—richly illustrated in black and white, and colors. A Style Authority for nearly 50 years!

Cornell Classes Use McCALL'S

To them it is a text book. To home-loving women it is a household necessity. This is your last chance to get for 50c a year, all the departments—Correct Social Usage—What Priscilla Learned at Boarding School—Words—How to Use Them—Home Millinery—Common-Sense Beauty Talks—Paris Fashion Letter—Home Dressmaking—Embroidery—Children's Page—Baby Welfare—Foods and Food Values—Gardens—Household Decoration—Parties and Entertainments—Housekeeping Exchange.

McCALL'S

MAGAZINE
now 10c a
copy at any
newsstand or
McCall
Pattern
Agency

The Nameless Man

Natalie Sumner Lincoln, is the big new serial of love and mystery, and startling climaxes like the snap of a whip. Begin it at once in the April issue, our Easter annual Spring Fashion Number, printed in March. This is your last chance to get it and all the other good stories at the old price.

This Coupon
saves you
money.
Mail it today.



MARCH 31st, LAST DAY
This Coupon Must Be Mailed Quickly

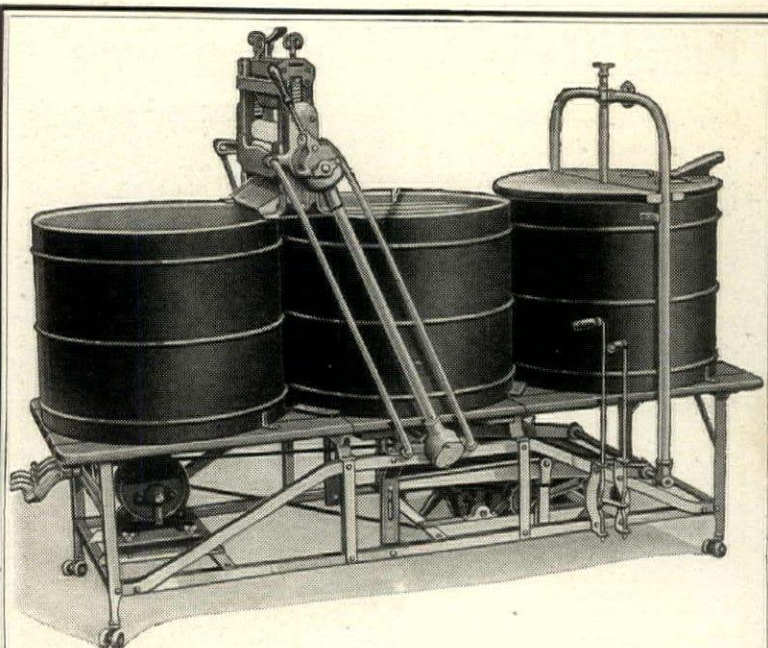


THE McCALL COMPANY, McCall Building,
236 to 246 West 37th Street, New York, N. Y. H.G-3-17
Send McCALL'S MAGAZINE for one year, at the former low price. I enclose 50c (75c Canada, \$1.00 foreign). Also send, without further charge, McCALL'S Spring and Summer Pattern Catalogue. For 2 years enclose \$1.00 (Canada \$1.50; Foreign \$2.00).

NAME

ADDRESS

If you wish also, free, (1) Fund-Raising Plans for Churches, Schools and Societies, (2) of Big Cash Offers to Agents, (3) or Name of Nearest McCall Pattern Agent, check these items. (Canadian Branch at 70 Bond Street, Toronto.) After March 31st, 1917, you will pay 75c for McCALL'S one year, (Canadian \$1.00, Foreign \$1.50.)



The Daylight Washing Machine

is unlike all other machines in its washing principles. The TRIPLE DISC CONES operate DOWNWARD on the clothes and clean by FORCE and SUCTION and not by agitation twisting or rolling. Every stroke of the cones means cleaner clothes and Forty Strokes per minute, thus applied, simplifies and reduces washing labor to a minimum.

MADE IN SIZES TO MEET THE REQUIREMENTS OF ANY HOME

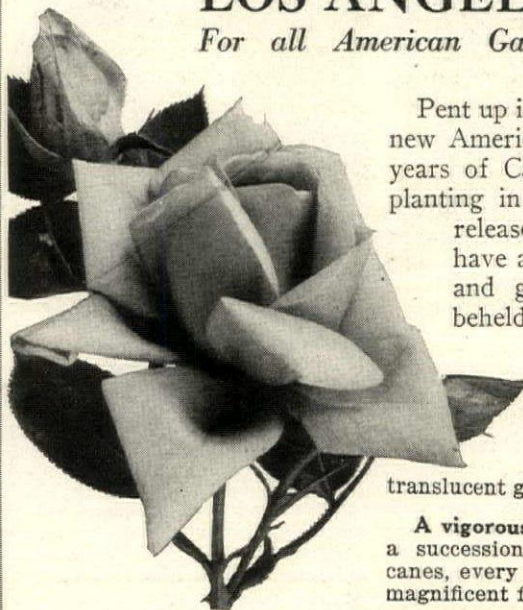
Hand, Electric or Belt Power, one, two or three tubs, Swinging Power Wringer or Swinging Hand Wringer Support, combining the latest and newest features to make an efficient, simple, strong, durable washing machine.

Complete information on request. Dept H.

PUFFER-HUBBARD MFG. CO., Minneapolis, Minn.

The New American Rose LOS ANGELES

For all American Gardens



Pent up in the plants of this new American Rose, are two years of California sunshine, planting in your garden will release it, and you will have a glow of sunshine and gold never before beheld in a Rose.

A new color combination of superlative beauty—flame pink, toned with coral and shaded with translucent gold at base of petals.

A vigorous grower producing a succession of strong, sturdy canes, every shoot crowned with magnificent flowers.

An abundant bloomer giving a profusion of large, perfect Roses from early summer to advent of winter frost.

Strong two-year-old budded plants, delivered to any part of the United States for . . . \$2

Large or small quantities at the same price. These plants are cut back to 18 inches high, and will bloom this coming summer. Pamphlet with cultural directions with each plant.

HOWARD & SMITH, Rose Specialists

Olive and Ninth Streets, LOS ANGELES, CALIF.

Send 10 cents in stamps for a beautiful picture of "Los Angeles" Rose in natural colors—it tells the story.

Ruffled Gladiolus—"Kunderdi Type"

The only race of Gladiolus ever produced in the United States and the most beautiful of all.

Each petal is exquisitely ruffled, or fluted, giving the flowers a refined appearance equal only by the finest orchid.

New Class, New Types, New Colors.

"They are immensely more beautiful than the plain."

—Mathew Crawford.

"The Ruffled Gladiolus like the ruffled sweet peas have a refined appearance which the flat petaled ones do not possess."

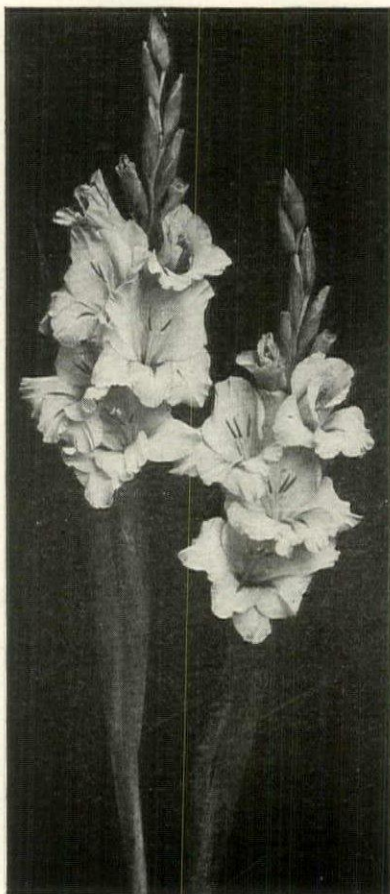
—Luther Burbank.

Our New Primulous Types of this strain are exceedingly fine.

Send for handsomely illustrated free catalog of 40 pages, offering over 230 varieties (all of our own production), and much other valuable information.

Address the originator.

A. E. KUNDERD, (BOX 2), GOSHEN, IND., U. S. A.



"Kunderdi Glory"

The Plunder of the Past

(Continued from page 74)

romantic, perhaps, than the reality, but who cares for that? It is the touch of faery we are after.

We had rather see history than read it, see it in the very stuff the old-time folks made and used. To lay hands on a solid, enduring piece of the 15th Century, that is the history lesson unforgettable.

A 14th Century candlestand, a 16th Century Venetian tooled cabinet, a bacchanalian canvas that was wet when New York was straggling along the waterfront, a Florentine bas-relief, a haughty halberd that gleamed with the others at the head of a slow-swaying priestly procession twenty generations ago, a tapestried marriage scene made in Flanders, four centuries before the war-lords turned that place into today's spattered cockpit; these are relics to conjure the mist of years away for the least imaginative, and

to present him with a picture of the past of his own kind. These are relics we are buying and carrying away with care.

That dagger now, think of it in Tennessee's home. Do you see his wife's remonstrances that children will get it and hurt themselves? Do you see little son of years tugging terrible hard at skirt as she exclaims at its beauty its oddness, at its deadliness? Do you see Dad bend down to the boy, holding him off with one hand and showing him the gleaming weapon with the other?

And now back, back across years and the miles to the forgotten Venice whence the dagger came. Was there not a boy there, to the youngster with a bright inquiry eye who peeped in at the door and enjoyed the flying of the sparks from the hot and hammered blade?

Planting a Pink Garden

(Continued from page 21)

peonies and columbines. Queen of May, the iris nearest to a true pink, predominated, but attended by the violet pink and white of Madame Paquette and Sappho. A soft radiance of lavender and violet was contributed by Khedive and Gypsy Queen, a pale straw color by *flavescens* and a golden yellow by *aurea*, contrasting cleverly with the clear blue of *Iris pallida dalmatica*, the latter placed near the large silky pink petals of the oriental poppies, flanked by the dull grey and lavender of *Veronica incana*.

Hordes of pink and cream columbines fluttered everywhere, their lacy foliage contrasting with the grassy blades of the iris. The peonies as well as the iris were chosen from observation at the horticultural show. All those listed are of the earlier varieties and not one of them reveals the slightest tinge of blue. Of the single ones Leucadia, Areos, and Rosy Dawn are of a wonderful satiny flesh tint. The Bride is an immense single one of glistening whiteness with conspicuous golden stamens. The others are all of the double or rose type, blending perfectly in tones of shell pink and delicate cream.

Contributory to the iris and peonies was an especially delicate border of maidenhair fern, lavender-blue *Phlox divaricata*, foam flower and *Azalea vaseyi*, a witching pink. Above the fern, later, swayed coral bells.

A single touch of gold was offered by the little shrub *Potentilla fruticosa*, completely covered with flowers of a clear primrose, and resembling a wee single rose.

Against the hedge at this time—June fifteenth—were masses of taller flowers: foxgloves, pink lupines, Canterbury bells of a soft pink, hollyhocks of pinky yellow, and the turquoise blue of *Delphinium belladonna*.

I was horrified to discover that Sweet William and foxglove, so generally quoted as an excellent combination in their mixed varieties, disclosed an appalling range of conflicting harshness, from white and salmon to cerise, magenta, purple and dull red. However, prompt and vigorous upheaval restored harmony, as in this combination only white or very pale pink was allowed.

THROUGH THE SUMMER

From the middle of June to the middle of September the garden showed only an occasional note of color for chance visitors. Of course there were phlox, *speciosum* lilies, hollyhocks, and coral bells. Had the summer months been under consider-

ation I would have chosen the loose-strife (*Lythrum roseum*), mallows and more phlox, keeping the soft, warm pinks and ombré cold blue pink or flame color. These some excellent types are Elsie Campbell, light salmon with warm pink center; Selma, light pink with a small cherry-red eye; Wm. N. Craig, pale pink with a blue eye; Mme. Paul Dutrie, an indescribable faint flush of pearly lavender pink; and Daybreak, of soft pink. An unusual flower for this season is *Rudbeckia purpurea*, a tall plant of dull old rose color with a brown center, appearing in August and for a soft mass of palest pink add *Gypsophila acutifolia*.

SEPTEMBER BLOOM

In early September the garden is very satisfactory in its mass effect though there was not the wealth of interesting detail to be seen in spring. The borders were filled wherever space permitted with silvery snapdragons; a few pink hollyhocks survived from summer, and the was still heavy with the fragrance of the *speciosum* lilies which began to bloom in August. The best pink aster was Elsie Perry—a sturdy hardy variety 3' high. In combination with this were flat-topped masses of dull pink *Sedum spectabile*, cloudberry lavender *Statice latifolia*, dwarf bi-color heart, and phlox—Peach Blossom, palest pink, and Pantheon, silvery rose.

With the exception of the sea and statice, whose period of bloom proved short, all lingered toward the end of the month when the Japanese anemones began to bloom. These masses of rose, silvery pink, white, both single and double, appeared to fill the garden, and lingered on into October to greet the holly chrysanthemums. The later holly asters were Thomas Ware, Pease Pink, and Thirza. Of these the last proved weak and ineffective, as *Boltonia latisquama*. This year I enhanced the medium late effect, I added more asters of the sturdy type *Nova Anglia rosea*; Lil Fardell, more pink; Climax, a very large flower of pale blue which lasts fairly long and for a touch of late yellow very latest of the helianthus—the Maximilian—in the two farthest corners next the hedge. In place of galium which did not prove effective enough to warrant giving it space have put in a carefully balanced combination in the four center beds, a daisy aster—the variety *nana compacta tiflora rosea*.

When the Plumber Comes Back



Just as truly as you're living, he'll be back—if you don't make sure you have the right kind of plumbing in the first place.

And every reset water closet, every kitchen sink or laundry tub he replaces, will make you wish you had heeded our word and bought good plumbing. For the plumber's time is almost half your expense, and no plumbing fixture we make will cost as much as an inferior one, plus replacement, plus plumber's time.

THE TRENTON POTTERIES COMPANY

"Impervio" China and "Ideal" Porcelain

is virtually a home insurance. So hard is the glaze baked on that any amount of service will not mar its beauty and usefulness. A dampened cloth removes any dirt easily because of this density of the glaze. Pure white, glistening "Impervio" China and "Ideal" Porcelain will make your bathroom, kitchen and laundry showrooms of your home.

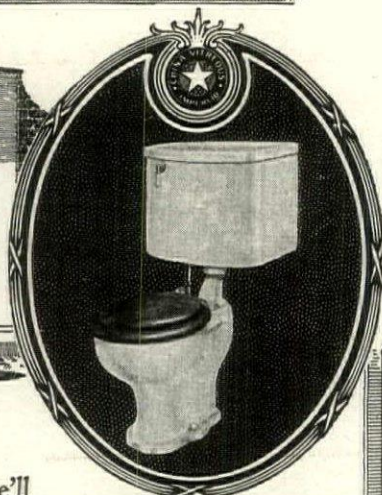


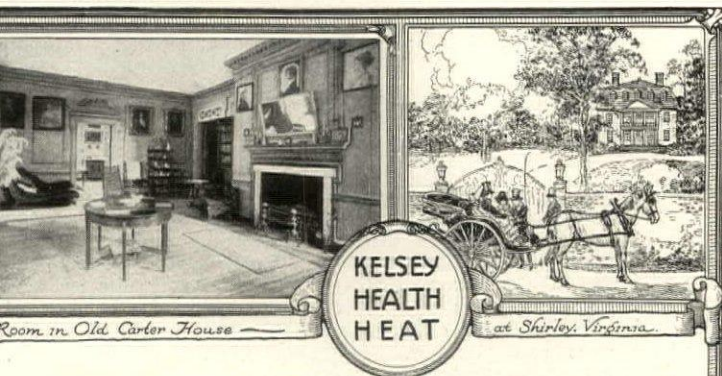
Our interesting and instructive book, "Bathrooms of Character," will aid you in selecting the right plumbing fixtures. Ask for Booklet P-8.

This is not necessarily true of all plumbing fixtures. All clay plumbing fixtures have not the same durability and richness of glaze. There is only one way to be sure of getting the right kind. Specify the ware of a reliable manufacturer and look for the trade-mark before installing.

THE TRENTON POTTERIES COMPANY
TRENTON, NEW JERSEY, U. S. A.
MAKERS OF THE SILENT SI-WEL-CLO CLOSET

THE TRENTON POTTERIES CO.
SI-WEL-CLO
SILENT CLOSET





KELSEY
HEALTH
HEAT

Room in Old Carter House

at Shirley, Virginia

Whether the Home Is Old or New This Heat Is the Heat of Heats

IT is the heat of heats, mainly because it is a health heat. A heat that is as fresh and wholesome as the glad sunny outdoors. A heat that has the welcome restfulness of being noiseless. No hissing and sissing; or thumping and banging.

A heat that allows a contentment of mind, because of an absolute freedom from leaking valves, or frozen pipes to flood floors and ruin rugs or ceilings.

A heat, that because of its freedom from radiators and the accompanying exposed piping, is neither an ugly obtrusion, nor a mar to the harmony of the room.

Whether in an old or new house, the Kelsey heat ducts can be kept out of sight, and the heat openings be inconspicuous.

The old Carter House, at Shirley, and the Patrick Henry House, at Brookneal, Virginia, are both Kelsey Health Heated. Imagine the unfitness of radiators in either instance.

To say it briefly, the Kelsey Health Heat heats and ventilates at the same time. It mixes the air with just the right amount of moisture.

It will deliver more heat from less coal than any other heat. We can prove it.

Send for booklet, "Some Saving Sense on Heating."

New York
103-K Park Avenue
Detroit
95-K Builders' Exch.

THE KELSEY
WARM AIR GENERATOR
237 James St., Syracuse, N. Y.

Chicago
2767-K Lincoln Avenue
Boston
405-K Post Office Sq. Bldg.

BUILDING PLANS AT LOWER PRICES

Plans and specifications for 12 1/2% of building cost (instead of regular 2 1/2%) same service as by all architects—includes preliminary sketches. 2 sets of prints, 2 sets specifications.

Plans—includes preliminary sketches and 2 sets of blueprints for 1% of building cost. you are erecting a \$5000 house, your plans and specifications will cost only instead of \$125 at the old rate—write for particulars.

SIGNING OF COUNTRY HOUSES
OUR SPECIALTY

UNIVERSAL STUDIO, Architects
55 Broadway, New York

HODGSON Bird Houses

The birds are mating. Soon their chirps and songs will fill the air. Now is the time to buy the bird house you've so often contemplated.

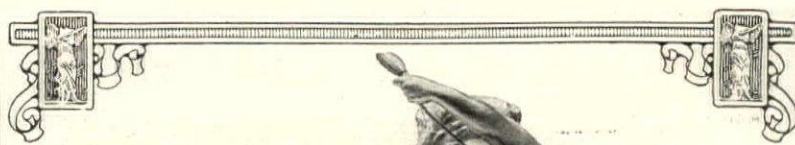
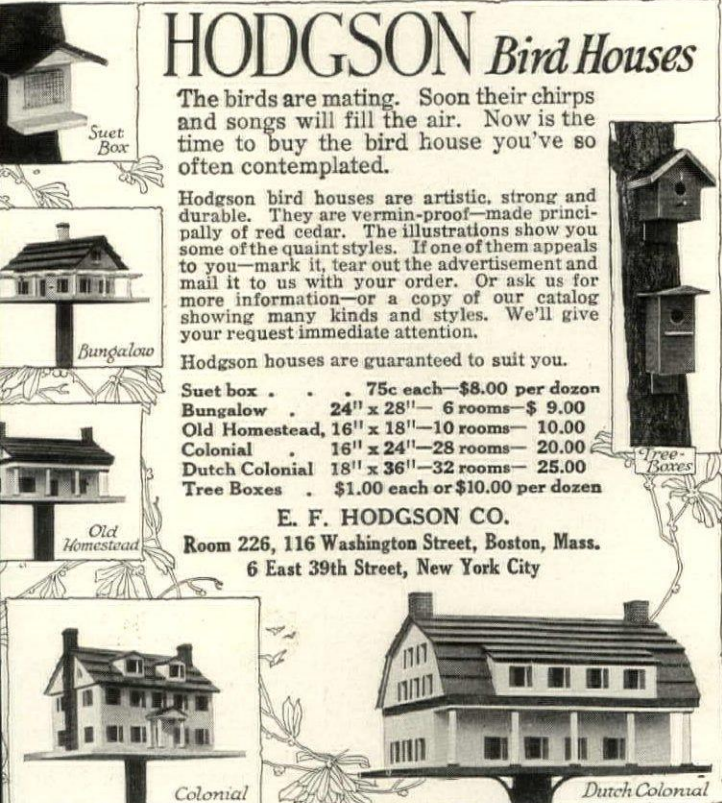
Hodgson bird houses are artistic, strong and durable. They are vermin-proof—made principally of red cedar. The illustrations show you some of the quaint styles. If one of them appeals to you—mark it, tear out the advertisement and mail it to us with your order. Or ask us for more information—or a copy of our catalog showing many kinds and styles. We'll give your request immediate attention.

Hodgson houses are guaranteed to suit you.

Suet box . . . 75c each—\$8.00 per dozen
Bungalow . . . 24" x 28" — 6 rooms—\$ 9.00
Old Homestead, 16" x 18" — 10 rooms— 10.00
Colonial . . . 16" x 24" — 28 rooms— 20.00
Dutch Colonial 18" x 36" — 32 rooms— 25.00
Tree Boxes . . \$1.00 each or \$10.00 per dozen

E. F. HODGSON CO.

Room 226, 116 Washington Street, Boston, Mass.
6 East 39th Street, New York City



This lively water-sprite would grace any garden. It is but one of many types of Mott Fountains.

Mott Fountains

A beautiful piece of sculpture adds the final touch of charm to the fountain.

Owners of modern country places will find many new suggestions in our catalog of Display Fountains.

We issue separate catalogs of Display Fountains, Drinking Fountains, Bird Fountains, Electroliers, Vases, Grilles and Gateways, Settees and Chairs, Statuary, Aquariums, Tree Guards, Sanitary Fittings for stables and cow barns.

Address Ornamental Dept.

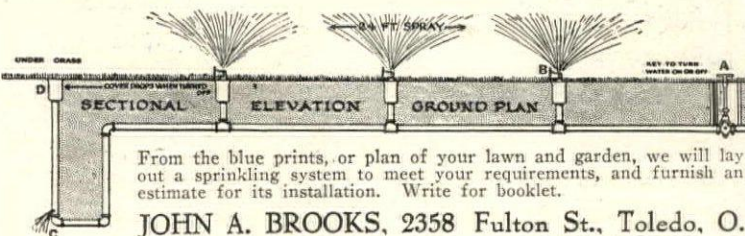
THE J. L. MOTT IRON WORKS, Fifth Ave. & 17th St., New York

MOTT

NO MORE HOSE Simple Turning of Valve Solves All Sprinkling Problems

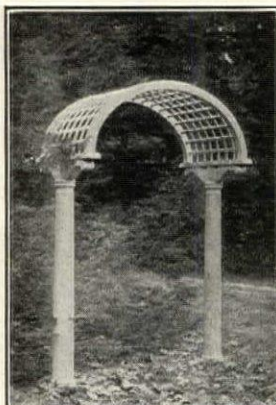
Sprays a fine shower over your lawn from under the sod. Each spray 24 ft. in diameter. The system may be controlled from any desired point, and closes automatically, after operating a set length of time. Piping is just a few inches below the surface, yet the system is made absolutely frost-proof by an automatic draining sprayer.

- A. Removable key to turn water on or off.
- B. Nozzle with protecting cover drops under grass, when water is shut off. No interference with mowing of lawn.
- C. Automatic drain, making system frost-proof. Waste water piped to roots of trees as sub-irrigation.
- D. Showing nozzle, when not in operation.



From the blue prints, or plan of your lawn and garden, we will lay out a sprinkling system to meet your requirements, and furnish an estimate for its installation. Write for booklet.

JOHN A. BROOKS, 2358 Fulton St., Toledo, O.



North Shore Ferneries Beverly, Massachusetts

Garden Furniture and
Garden Ornaments of
Beauty and Distinction.

Send for Catalog of
Many Designs.

New York Agents
31 EAST 48th STREET



ANCHOR POST FENCES



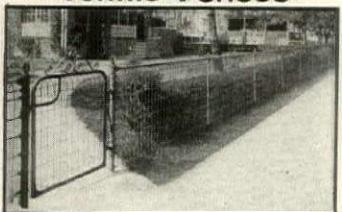
NO fence or gate will stay permanently attractive and keep in alignment unless it is correctly proportioned and built, and all parts and fittings are of proper weight, strength and design.



Railings and Gates



Tennis Fences



Lawn Fences

In Anchor Post Fences and Gates each part is specially designed for the use to which it is put. Correct proportions, superior mechanical design and workmanship and an experience of over twenty-five years, combine to make them the standard by which all others are judged.

Thousands of installations are evidence of the durability of Anchor Post design and construction.

CATALOGS

Write for any of the following Catalogs. You will find them to be authoritative text books upon the subjects named:

Lawn, Garden and Tennis Fences.
Country Estates and Farm Fences.
Special Enclosures for Poultry, Dogs, etc.
Garden Arches, Arbors and Trellises.
Wrought Iron Entrance Gates and Railings.

ANCHOR POST IRON WORKS

11 Cortlandt St. (13th floor)
NEW YORK, N. Y.

Intensive Methods and the Vegetable Crop

(Continued from page 50)

absolutely essential. Between October first and the last half of March it will yield beets in 40-50 days from date of sowing seeds, carrots in 45-60 days, lettuce in 35-55 days, radishes in 20-40 days.

Of course, much depends on the choice of varieties. Points that should govern the selection of sorts for under-glass gardens are their time of maturity, habit of growth, productiveness and pedigree. The last is by no means the least important, for, no matter how well a sort measures up to all requirements, if you get a poor strain of it, your plans are apt to go astray.

This brings us to the point of methods in under-glass gardening. When you consider that it requires a lot of time, money and care to get results, it is only logical that you should want those results to be worth while. Your efforts must produce crops above the average or the game won't be worth the candle. For methods by which this most elaborate form of gardening may be made profitable, we are indebted to the French. For over a hundred years they have practiced such intensive methods that an acre under glass would yield more net profit per year than many quarter section farms in this country.

INTENSIVE PLANTING

As long ago as 1810, French gardeners coming to this country taught their new American countrymen to "sow short-topped radish seed, mixed with carrot seed, or spinach seed, maybe mixed with the radish seed. The spinach or carrot will be fit for use sometime after the radishes are drawn out." Here we have the sum and substance of intensive methods for under-glass gardening. They consist simply of selecting crops not related to each other and of different seasons of maturing, sowing them in one and the same row, and harvesting your crops in their order of getting ready.

We have learned much since. We now know that it is perfectly safe to sow three different kinds of seeds at one and the same time and harvest three crops in succession without any special effort. For instance, radish, lettuce and carrots make good companion crops. Select a radish that is ready in 25 days, a lettuce that is ready in 40 days, and a carrot that may grow for 50 days, and you have a perfect program. Just one hint—sow your seeds thinly and buy

the best strains that are available. Another good combination is, spinach, carrots and beet. Select an extra early radish, any (Victoria is a good one), a carrot and a 60-day beet. All radishes are pulled, see that the distance of the plants stand 4" apart. Never sow seeds in a hotbed. With rows 4" apart you may expect maximum turns from every square inch.

SMALL FRAMES AND FORCING

And now a few words about the usefulness of the smaller accessories such as miniature frames and so on. I do not believe the majority of home gardeners appreciate the merits of these devices as much as they deserve. Their mobility is one of the strongest points in their favor, their low price another. Their help, seemingly risky planting early in the season by a perfectly safe operation as proven to my perfect satisfaction time and again.

For instance, we are very fond of cucumbers and melons. Ordinarily these cannot be sown in doors before June first. We "beat" that date by two weeks have cucumbers by the 15th of August instead of August 15th, and melons by August first instead of the middle of that month.

Here is how we do it:

About April 1st we sow *E. Gem* muskmelon seeds in paper pots, five seeds to a pot. The pots are sunk in the hotbed. In four weeks we generally have fairly good "stand" of three or four plants per pot, which are then (pot and all, so as not to disturb the root system) and set out in well manured hills and covered with a junior frame. They receive a setback and, in about five days after seeds are sown, we generally enjoy our first melons. Cucumbers are handled in very much the same way except that we do not sow the seeds until mid-April.

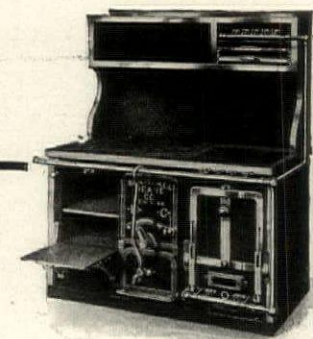
The principal value of the glass houses lies in their inexpensiveness and assistance in keeping out late frosts in the spring and fall off plants that are right at the height of their bearing season. We have often helped us carry a row of lettuces right up to Thanksgiving, and kept late frosts from our bean rows that were thriving lustily in the garden by the 20th, after an early start.

For the Guidance of Correspondents

In order to facilitate the answering of the great number of letters that come in to the Information Service, we must ask readers to co-operate with us by observing the following rules:

- (1) All inquiries must be accompanied by a self-addressed, stamped envelope or return postage.
- (2) State your problem concisely. If asking for decoration suggestions for a room or number of rooms, state the exposure and the existing features of the room. The Information Service cannot suggest alterations or improvements to plans or give schemes of decoration unless a full description accompanies the inquiry. If possible, send a sketch of the plans both in decorative and architectural questions.
- (3) We do not supply plans for houses or for gardens. Plans shown with many of the questions and houses in the editorial of which the reader may wish himself with the consent of the architect.
- (4) We do not issue a catalog. Letters that demand a circular or a copy of a manufactured article are referred to that manufacturer who sends the catalog direct.
- (5) We cannot discriminate between two equally reliable manufacturers of the same product.
- (6) Remember that the answers to correspondents are compiled by a staff of experts whose experience especially fits them for the service. Replies are made promptly as the necessary investigation permits.

By looking on page ?? of this issue, you will find a number of suggestions for your problems.



DEANE'S PATENT FRENCH RANGES

stand supreme among kitchen ranges. The principles upon which they are designed and the superior excellence of the workmanship and the materials that enter into their construction insure the highest character of service under all conditions. Full information sent on request.

Shown above No. 209 Patent French Range in Combination with Gas Range and Broiler.

We also manufacture plate warmers, broilers, steel cook's tables, incinerators, laundry ranges, etc.

RAMHALL, DEANE COMPANY
61-265 West 36th St. New York

Priced at
from
to \$3.75



DON'T WAIT! until the birds are looking around for a new home. Place bird houses among the trees about your home, now, so that they will become weathered by nesting.

Send for catalogue and price list

Ship-O-Will-O Furniture Co.
Adams Ave. Scranton, Pa.

VICK'S GARDEN GUIDE FOR 1917

Several new features. Valuable information about planting. An authority on Vegetable, Flower and Fruit. Seeds, Plants, Bulbs and Trees. Based on our experience as America's oldest mail-order seed concern, and large growers of Assters and many other flowers in the field. With this guide, the best ever issued, we will include booklet, Assters in the Home Garden. Both are absolutely free.

Send for your copies today, before you forget.

JAMES VICK'S SONS
94 Stone Street, Rochester, N. Y.
The Flower City

Horsford's Cold Weather Plants

and Flower Seeds that Grow! Old-Fashioned Flowers, Hardy Ferns, Bulbs, Shrubs, Trees, etc. Also an attractive line of Fruits and Lily Bulbs. Don't fall to my catalog before placing your orders. Order for it now.

H. HORSFORD, Charlotte, Vermont

Put "Velvet Water" In Your Home

"Velvet water" is simply soft water—water freed from all the harsh, drying, irritating elements which detract from the comfort of toilet and bath, act unpleasantly upon the skin, and impair the processes of cooking and laundering.



Permutit

TRADE MARK
REG. U.S. PAT. OFF.

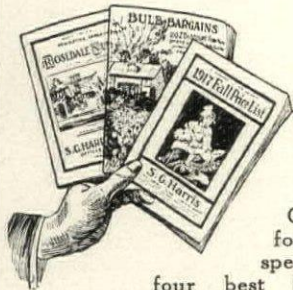
The Water Softening Filter
To Zero Hardness

Will give you an ample and unfailing supply of velvet water in your home—at a cost so small that you will wonder why you deprived yourself of its luxury so long. Whether your house is a bungalow or a mansion, there is a Permutit plant to fill your needs, at a price that you will willingly pay.

Write for the booklet, "Velvet Water, Velvet Skin," and the literature on Permutit.

THE PERMUTIT COMPANY
30 East 42d Street New York

Gold Medals:—Ghent, 1913—San Francisco, 1915



3 Helpful Catalogs Free

The first is now ready. Describes Roses, Dwarf and Standard Fruit Trees, Shrubs and Vines. Also Ornamental Trees, including large sizes for immediate effect. Evergreens a specialty. Unusually fine offerings in the

four best broad-leaved varieties — Mahonia, Leucothoe, Mt. Laurel, and

RHODODENDRONS

Iron-clad Hybrids from 1 to 4 ft., also native plants, both nursery-grown and collected.

Second, June 1st—Dutch Bulbs at 20% discount for orders before July 1st. Marvelous New Breeder, Rembrandt and Darwin Tulips; Narcissus, Daffodils, Jonquils, etc.

Third, August 1st—Peonies and Hardy Perennials. Our leading fall specialty.

A postal brings the entire series. You need our 1917 Catalog in making your spring planting list. Send today.

ROSEDALE NURSERIES

S. G. HARRIS

Box D Tarrytown, N. Y.



ROOFING TIN —

Manufactured from
Keystone Copper Steel

Highest quality plates obtainable. Grades up to 40 pounds coating. Look for the Keystone stamp.

We also manufacture APOLLO-KEYSTONE Copper Steel Galvanized Sheets—fireproof, durable, unexcelled for Roofing, Siding, Culverts, Tanks, Spouting, and all exposed sheet metal work. The added Keystone stencil insures your greatest service and rust-resistance. Send for booklets.

AMERICAN SHEET AND TIN PLATE COMPANY, Frick Building, Pittsburgh, Pa.

The GLEN SPRINGS

WATKINS, N. Y.
ON SENECA LAKE OPEN ALL YEAR
Wm. E. Loffingwell, Pres.



When Body and Brain Crave Rejuvenation you will find just what you seek at The American Nauheim—

The Only Place in America Where the Nauheim Baths, So Beneficial to Heart Weakness, Are Given With a Natural Calcium Chloride Brine.

Here rest and recuperation are scientifically promoted—private parks with miles of accurately graded walks for Oertel hill climbing are available—recreations of every variety are in evidence, amid incomparable surroundings.

Ideal conditions for taking "The Cure" during the Winter months.

THE BATHS

are connected with the Hotel. Treatments are particularly adapted to HEART DISEASE, CIRCULATORY, KIDNEY, NUTRITIONAL and NERVOUS DISORDERS, RHEUMATISM, GOUT and OBESITY.

On request, we will be pleased to send you illustrated Booklets giving full information regarding rates, reservations, treatments, etc.



COZY,
COMFORTABLE
AND QUIET

within, although the Storm rages without.

CON-SER-TEX is a specially treated high grade cotton fabric particularly well adapted for roofing and porch covering. It will not rot, stretch, crack nor blister. No more noise and rattle when the elements let loose. No more leaky spots nor repair bills after the storm has passed. CON-SER-TEX preserves the coziness and safety of the home during the storm.

Every carpenter, builder and owner should send for our new illustrated booklet "Roofing Facts and Figures." It proves the many advantages of "CON-SER-TEX" Canvas Roofing.

Wm. L. Barrell Company
8 Thomas Street New York City

Chicago Distributor:
Geo. B. Carpenter & Co.,
430-40 Wells St.

California Distributors:
Waterhouse & Price Co., Los Angeles
The Pacific Building Material Co.,
San Francisco



Why not have sparkling, safe, freshly-filtered water in your home?

It is easily accomplished by using a LOOMIS-MANNING FILTER which cleanses and purifies every drop of water.

People have told us, "I put in your filter as a precaution but am amazed to see the dirt and other matters it takes from our water supply which we considered practically perfect."

This filter is easily installed in any house built or building. Causes no disturbance in the water system, no appreciable loss in flow or pressure. Operates splendidly with any system of water supply.

It is durably built, free from complications, simple to care for, can be depended upon for excellent service day in and day out. It is now giving pleasure and comfort to hundreds of city and country homes.

Prompt installation if you act quickly

Loomis-Manning Filter Distributing Co.
Est. 1880 1445 So. 37th St., Philadelphia, Pa.

Grow GLADIOLI 100 Bulbs for

The Best Summer Flowers \$1.00
for Pleasure or for Profit
Have a Beautiful Garden from July to October

Gladioli make the showiest of beds and exquisite, long-lasting bouquets and are in enormous demand for cut flowers. You can now have a handsome big bed of these glorious flowers; all colors mixed, from white to crimson, as well as many beautifully variegated at almost no cost. As easy to grow as a weed. I sell good plump bulbs that will bloom this summer; importing in enormous quantities direct from reliable Holland growers.

John N. Fagan, 2829 Unruh Street, Tacony, Pa., says: "I had \$100 worth of pleasure. They are the largest and most beautiful I have seen."

Stores ask 25c or more a dozen. Many growers demand double last year's prices. Nevertheless I shall again, for the fourth successive season, continue my sensational and popular low-price offer while stock lasts. Here is my unbeatable offer:

20 Bulbs, 25c 100 for \$1.00 1,000 for \$8.00

W. R. Barington, Summit Hill, Pa., says: "The gladioli were most beautiful and displayed a riot of most charming colors."

You will say the same thing.

As a lover of choice flowers, can you resist such a liberal offer when I give such amazing values. Don't wait until stock is gone; order NOW.

CLARENCE B. FARGO FRENCHTOWN, N. J. Desk 7

COLLINS' GUIDE, FREE

COVERS ALL GARDEN NEEDS

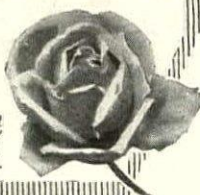
Privet hedge—sturdy plants at less than 5c a foot—will soon add \$1 a foot to your property value.

100 berry plants for \$2—finest fresh strawberries and raspberries from May till October at 2c a quart.

Five finest roses—guaranteed to grow—delivered to your home for \$1.

Shows these special offers in colors—tells how to get finest fruit and vegetables at lowest cost—WRITE TO-DAY

Arthur J. Collins & Son, Box 61, Moorestown, N.J.



Brass About the House

(Continued from page 58)

average country house today, or in any setting where simplicity is the keynote. They are especially desirable in their wide range of prices from \$6.00 to \$35.00 a pair. The graceful proportions of the Adam andirons, illustrated, lend themselves more consistently to a room of the same treatment or of French period decoration, being an adaptation of the Louis XVI detail and outline.

With the andirons, the perforated brass fender makes the fireplace possibly more complete, but as the depth of the fireplace opening and breadth of the hearth have made the fender less a necessity for the wood fire than it is when coal is burned in a grate, one rarely sees the fender in use, although many beautiful examples originated by the great furniture designers such as Chippendale, Sheraton, Heppelwhite and the Adams exist and are reproduced in modern brass.

The shovel, tongs, poker and stand can be found in prices ranging from \$11.50 to \$25.00, while the trivet or old-fashioned kettle-rest, suitable for use at the tea hour, can be bought from \$10.00 to \$25.00.

The brass toast fork is also an attractive and useful accessory for the fireplace. Reproductions of old English designs in these range from \$2.50 to \$5.00 each. The fork can be hung from brass hooks, such as are reproduced from the old English and Italian designs. These can be found in great variety and range from 50c to \$1.50 each.

LIGHTERS AND WARMING PANS

The Cape Cod lighter should not be overlooked, as well in the equipment of the fireplace as an undeniable convenience, eliminating the use of paper. These are made in plain brass with a tray and igniter for \$4.50 complete, and advance in price to \$10.00 for the more elaborate types. The brass covered wood box is also desirable, where the space will admit of its use.

Still another feature of the early American home, which we only associate with the present-day fireplace for sentimental reasons or decorative purposes, is the brass warming-pan—sometimes made of copper as well—elaborately pierced and mounted with a carved mahogany handle.

In the house where the bedrooms were often without heat of any kind or in the more luxurious home, the room boasted a fireplace; this was so inadequate in the stress of extreme cold that the warming-pan, used to heat the linen bed covering, was regarded as an indispensable accessory. Being without practical use today, however, the covers of warming-pans, because of their more or less elaborate perforated decoration, can be removed and converted into sconces by adding arms for the candles. This is an attractive way to utilize a cherished heirloom, that would, perhaps, otherwise be relegated to the garret or storeroom.

Of the other heating receptacles of former times, such as braziers and foot-warmers, made in both copper

and brass, few are seen now other than in ornamental use as flower holders or perhaps converted into incense burners.

The stove, or rather the grate invented by Benjamin Franklin in the early part of the 18th Century, known as the "Franklin Stove," much trimmed with brass, is still used in the old houses throughout Pennsylvania and New England and is much sought after by the

English country house builder of taste.

THE FINISH ENGLISH BRASS

In English brass we find a quality of finish similar to that of the only adds to its interest but not its sense, as the care is given to the production of the Russian brass. It likewise lacks the newness of the American facsimile made brass, does not have the brilliant finish of the latter. The especially true of the candlesticks. Brass constitutes the popular substitute for silver.

these purposes, a vast number of signs and types of candlesticks come down to us from former days, the originals and in countless reproductions. These latter may be required at nominal cost and even originals rarely have a prohibitive value under ordinary circumstances.

The Jacobean candlestick, illustrated, is a fine example of the type that can be easily adapted to use of electricity and with a switch added can be made into a lamp. The candlestick with a twisted stem is another old English design. The sliding stem candlestick is quite a different type again, in which the candle can be raised as it burns by a knob and slide in a groove along the side of the candlestick.

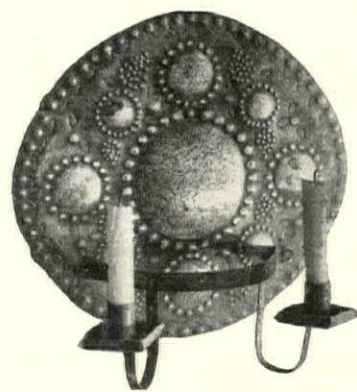
RUSSIAN BRASSES

In Russian brass, many of the candlesticks, such as are to be found in the various brass shops throughout New York, represent the early Jewish designs of religious significance. Jews, famous for their skill in brass work, have carried with them their religious traditions wherever they have settled, and in coming to America the Russian Jew has introduced his ecclesiastical brass, as well as for homelier use, to Americans. Within the last fifteen years, we have become as familiar with it as we are with that of the better established English or American make.

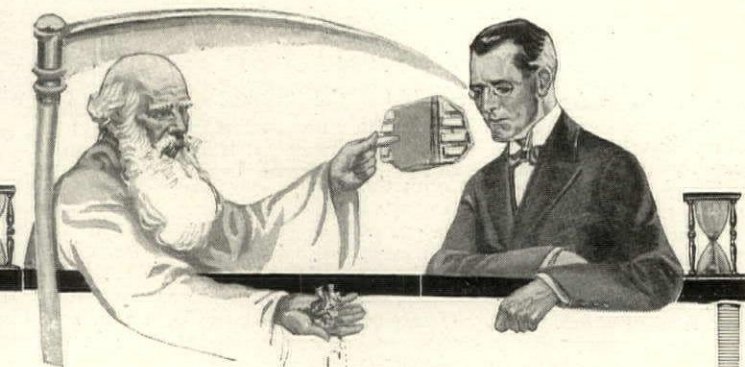
The Russian candelabra, coming in five, seven or nine stems, though intended in its original use to be lighted on certain religious festivals, can be found at very reasonable cost, depending upon the height of the candlestick (\$3.50 to \$15.00 each). It is perhaps most attractive for decorative purposes when used on a table of polished dark wood, such as a dining table, where the light is concentrated and the greater part of the room left in shadow.

Of the smaller candlesticks of brass make, such as are shown here, there are a great variety averaging from \$5.00 to \$14.00 a pair.

(Continued on page 82)



Decorative in a hall is a hand-wrought English brass sconce. Similar sconces cost \$10 a pair



"A Spark in this Spells Ruin"

A fire within the walls of your house is almost unfigtable, and if the inflammable material is there it's easy to start—worn insulation on an electric wire—a hungry mouse and an appetizing looking match head—a leak in a flue.

Kno-Burn

TRADE MARK

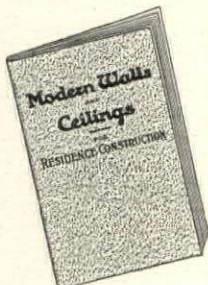
Expanded Metal Lath

gives you as clean a wall *inside* as out. The metal mesh completely embeds itself in the plaster and not only prevents the accumulation of inflammable refuse, but forms a wall in combination with the plaster that is an impenetrable barrier to fire. This is only one of the reasons why "Kno-Burn" is the choice of people who build for permanence and appreciate that "no upkeep" is more important than "first cost."

Send for Booklet 372. It will give you full information. It's free.

North Western Expanded Metal Co.

937 Old Colony Bldg., Chicago, Ill.



ROSES & NEW CASTLE

is the name of our FREE book on rose culture. Gives expert advice. Describes our famous hardy roses—the best for home planting in America—and tells how to grow them. Tells how we prepay express charges anywhere in the U. S.

er Bros. Co., Box 352, New Castle, Ind.

Express Your Individuality in Your Home!

BOWDOIN AND MANLEY

546 5th AVENUE NEW YORK

Furnishing and Decorating in conventional or original styles apartments, houses or single rooms. Materials and furnishings you seek to carry out your decorative scheme. Write for information.



Cincinnati Golf Club House

Architects, Elzner & Anderson

A Stucco Building That Lasts

at the illustration below of Bishopric Board. Note how the Stucco is dovetailed into the lath. Stucco and Bishopric Board are practically welded together into one solid piece. The Stucco let go—it's clinched to the lath. The lath are creosoted, imbedded in Asphalt Mastic on a round of heavy fibre-board. Nails through each and every lath hold the Stucco Board firmly in place.

Stucco Board can't sag and crack the Stucco. Fibre-board, Asphalt Mastic and creosoted give absolute protection against heat and wind and weather. They form a construction that is water-proof, vermin-proof and sound-proof.

Stucco Board is making Stucco finish more durable. It is providing a background that is

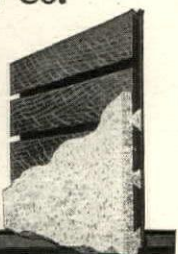
dependable—that prevents unsightly cracks and breaks and that gives added life to the entire structure.

That is why Bishopric Board was chosen for the Cincinnati Golf Club House shown above—why architects, contractors, builders and owners all over the country, who take the trouble to investigate its merits, specify and use Bishopric Board.

The Bishopric Manufacturing Co.

901 Este Ave., Cincinnati, O.

Write for our free book, "Built on the Wisdom of Ages," illustrating homes, apartments, factory and public buildings finished in stucco on Bishopric Board. It contains letters from architects, builders and users, and extracts from reports of scientific tests. It also gives full instructions for making a stucco mixture that will last. With this book we send free samples of Bishopric Board. Write today, investigate for yourself, be convinced.



Your House Needs Bay State Coating

WHETHER it's old or just built it needs this coating. Here's why: If your house is new, the concrete, brick or stucco walls are just as you want them—bright, clean, attractive. You're proud of their looks.

But—doesn't every rain make you uncomfortable? Wondering whether they'll look the same when it's over? Whether the water is seeping in? Whether blotches are appearing?

If your house shows marks of time, you long for the newness which has worn off. You envy the appearance of the new house across the way. That's why you need Bay State Coating. It makes the oldest walls new—makes them waterproof and just the color you desire. It comes in white and a variety of tints. Send for our interesting booklet, No. 2, showing and telling about houses and buildings made new with a coat or two. Tell us what tint you want and we'll send a sample.

WADSWORTH, HOWLAND & COMPANY, Inc.

Paint and Varnish Manufacturers

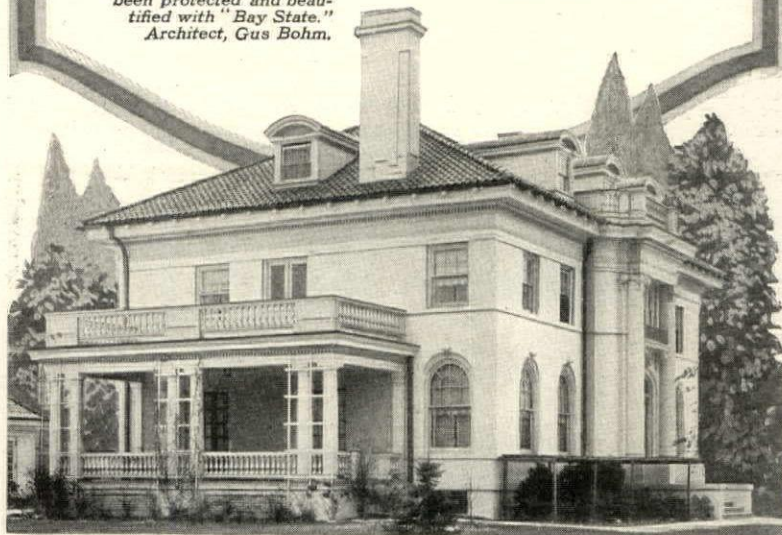
Boston, Mass.

New York Office: Architects' Building

Bay State Cement Crack-Filler is the first-aid treatment to walls that crack. It is easily applied and not detectable. A can in the house is as necessary as "tack and hammer."

Bay State "Agatex" is a cement-floor filler. It binds the small particles together. It makes the floor dustproof, waterproof, oilproof and every-other-kind-of-proof. Let us tell you more about Agatex. Send for Booklet A-2.

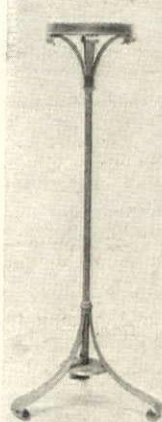
The George Faerber Residence, Cleveland, Ohio, which has been protected and beautified with "Bay State." Architect, Gus Bohm.



Distinctive Metal Work

One of our unusual designs. Flower Stands, No. 7501—4'0" high, \$48.00 pair, antique finish. Can be used for fish-globe stands or arranged as lamp standards, with shade holders and wired ready for use.

Arthur Todhunter
101 PARK AVENUE
NEW YORK





Kohler Quality

The plumbing ware you select for your new home is to be a permanent part of it. For this reason it is important to consider *quality and beauty*.

In choosing KOHLER WARE you are sure of the *highest quality*, because that quality goes into *all KOHLER products*.

KOHLER WARE

always of one quality—the highest

"It's in
the
Kohler
Enamel"

While KOHLER Bath
Tubs, Lavatories and Sinks
are selected for the finest
homes and apartments,
manufacturing economies
enable us to make these
high quality products
available for less expen-
sive houses, cottages and
bungalows.

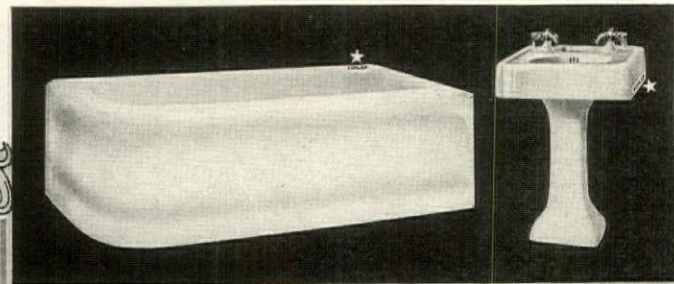
One-piece construction
and other hygienic features
of KOHLER WARE make
cleansing easy.

Write for a free copy of our
interesting book, "KOHLER OF
KOHLER." It has illustrations
of the many different patterns
of KOHLER WARE and tells
you all about them. Address
Dept. F-3.

KOHLER CO. Founded 1873 Kohler, Wis.,

Boston, New York, Philadelphia, Atlanta, Pittsburgh, Detroit, Chicago, Indianapolis,
St. Paul, St. Louis, Houston, San Francisco, Los Angeles, Seattle, London

★ The star indicates the location of the KOHLER permanent trade-mark in faint blue



American Evergreens

FROM APPALACHIAN SLOPES.

Kalmias, 'Dendrons, Hollies, Leucothoes.

Samples of 12 seedlings, postpaid, \$1. Or 2
of each and 8 sword plants, inc. Arbutus and
Galax, \$1. By express, your expense, 12 sam-
ples, 1/2 ft. transplants of above, or of Azaleas,
C. Hemlocks, Silver Bells, etc., well-rooted
and burlapped, \$2.

HARDY EVERGREEN GARDENS, Old Fort, N. C., Route 1

get HOLCO Seed Book



Tells you what and how to plant in
your vegetable and flower garden
and when to plant it. Makes crops
sure and dependable.

Send 10c. for one package each of
Giant Pansy and Aster
Seeds and get the book **FREE**
THE HOLMES-LEATHERMAN SEED CO.,
227 N. Cleveland Ave., Canton, O.

BE READY to fight fire—secure a dependable, steady supply
of water in ample quantity for any use in the home or on
the grounds.

DEMING Water-Supply

systems are complete. They meet your most exacting demands
for permanence, for convenience and for operation without
expert supervision or mechanical attention.

Capacities, 180 gallons to 130,000 gallons an hour.

Send for the Deming Book on water supply—illustrated
attractively—descriptions and suggestions for installations
written in a clear, easy-to-understand style—gladly mailed
free.

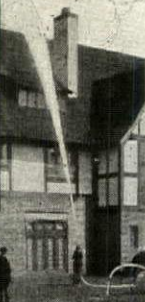
THE DEMING CO.

125 Depot Street

Salem, Ohio

DEMING

The Complete Systems



Brass About the House

(Continued from page 80)

Russian brass from \$2.50 to \$7.00 a pair and for the smaller ones, suitable for desk use, to hold the sealing wax candle, from 50c to \$1.50 a pair.

The brass seal, engraved with the monogram or crest, and converted from a pipe stopper, is also a quaint little accessory that can be used for a double purpose. It is inexpensive at 75 cents. These little devices that are surmounted with a grotesque figure or with one of the ever popular Dickens' characters, were originally used for stuffing tobacco into the bowl of the pipe and measured a little over 2" long—small enough to fit conveniently into the smoker's pocket.

In the matter of lanterns, notwithstanding that modern invention in the use of gas and electricity has perfected the matter of lighting, the old brass lantern with its horn panes still obtains as an appropriate treatment for lighting the old-fashioned hallway. These can be readily adapted to electricity and, when suspended from a crane or by a brass chain, are distinctly more consistent as a lighting fixture than the conventional electrolier of today.

SMALLER ACCESSORIES

Next in importance to the fireplace and light accessories in brass is the door knocker. These are made in variety to accord with any style of architecture and should always be selected with a view to their consistency of design. A good reproduction costs from \$2.50 to \$6.00. The value of an original knocker, needless to say, is enhanced quite as much by its association and sentimental interest as by its rarity and workmanship. The popularity of the small knocker, for inside door use, has led to the reproduction of a vast number of designs of the old English knockers of peculiar significance, such as the familiar cross-legged "Lincoln Imp," the "Durham Devil," the Rugby arms, the monk's head, etc. These average from \$1.00 to \$2.50 each.

Among the smaller conveniences in brass may be included the table bells, copies of the historical bells that now are found in English museums, such as the figure of Queen Elizabeth in full court dress, with the clapper made in the form of the human fore-legs and feet. These bells cost from \$2.00 to \$15.00 each according to their size and the subject they depict.

What we have grown to enjoy as an indispensable feature of the table where our familiar books lie, are

the supporting book ends, when rendered in bronze and possibly beyond the resources of ordinary purse, have become popularized in many attractive designs in brass, as shown in the illustration suitable in dignity and subject to the library or less formal use in bedroom or den. Certain book ends can be applied as door stops, if desired, but as there is a broad selection in these in themselves this is hardly necessary.

For the use of flowers or darkened corner of a room, with the brilliant surface of the metal introduces the effect of sunshine, a brass jug or tankard will be found most effective, preferably in brass. These, together with other brasses, crude but having the definable charm of having seen many years of usage, can be found if you will but search the shops. For too, can be found many useful articles, such as desk sets in brass, tea caddies, boxes for tobacco, general use, tea sets complete, trays that are square, oval or round after dinner coffee sets and silverware, with all their appointments, jardinières, plates of various sizes, fascinating bowls and trays and a hundred other articles too numerous to mention in these pages.

CARING FOR BRASS

The beauty of all brass depends largely upon its care, and in view of this it may be well to add a word regarding the best methods of caring for it. Many substances, such as oxalic, muriatic and other acids, generally known, but acids must be rubbed off, the brass dried and rubbed with a sweet oil and treated. The Government method, however, used in the arsenals, is said to be the best. This prescribes a mixture of one part of common nitric acid and one-half of sulphuric acid in a jar, having also ready a pail of water and a box of sawdust. The article to be cleaned are first dipped in the acid, then removed, placed in the water and finally rubbed with sawdust. This immediately changes them to a brilliant color. If brass has become greasy, it is dipped in a strong solution of soda and soda in warm water. This removes the grease so that the acid has power to act.

A simple cleaning recipe is a mixture of mixing oxalic acid and water. Apply with a brush and to polish brush again, when dry, with a plate brush, using dry whiting.

The Truth About Dwarf Fruit Trees

(Continued from page 30)

although the growth is not checked as much as we should like. The apricot should also be grafted on the plum, while the cherry ought to be worked on the Mazzard. Where plums are used they must be on the Myrobalan.

PLANTING AND PRUNING

All fruit trees require a fairly well drained soil. They are not really exacting, but low, damp, poorly drained land should be avoided when selecting a place for them. Proper preparation of the soil is essential; if you can trench the soil in the fruit border, by all means do so; if not, dig deep, liberal sized holes at least 3' deep and 3' across, and use about one-third manure to the quantity of soil required to fill them. Have the manure

thoroughly incorporated with the soil and if the latter is poor, replace with some top soil. When planting the trees avoid if possible allowing any manure to come in actual contact with the roots. A good sprinkling of coarse crushed bone through the soil will also add to the life of the compost.

Where cover crops can be used are recommended to prevent the soil from running down and the trees suffering for lack of fertilizer. Where this is not practicable, winter manuring with manure should be resorted to.

Spring pruning should be practiced very little with dwarf fruit trees, promotes a strong, vigorous growth whereas just the opposite result is

(Continued on page 84)

he Luxembourg Museum
And Its Treasures

he Luxembourg Museum And Its Treasures

By CHARLES LOUIS BORMEYER

THIS is one of the great Art Books of the century. It is an interesting story of the Luxembourg, illustrated with over two hundred beautiful engravings, and contains two hundred and twenty-four pages of text and illustrations. Printed on the best of paper and bound in Morocco Leather, flexible Covers, with gilt Edges and Embossing—in fact, the best of everything—it is an Art Work Deluxe. (Size 8½ x 11½.)


he Luxembourg Museum And Its Treasures

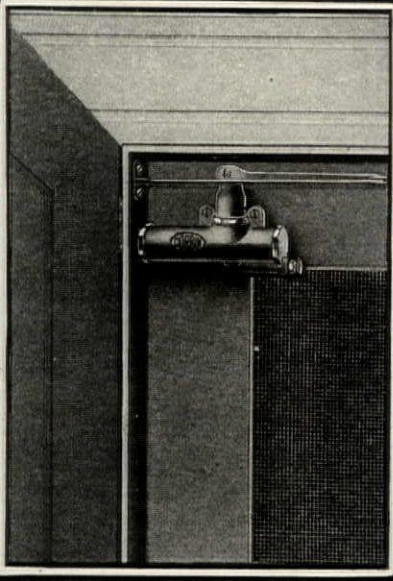
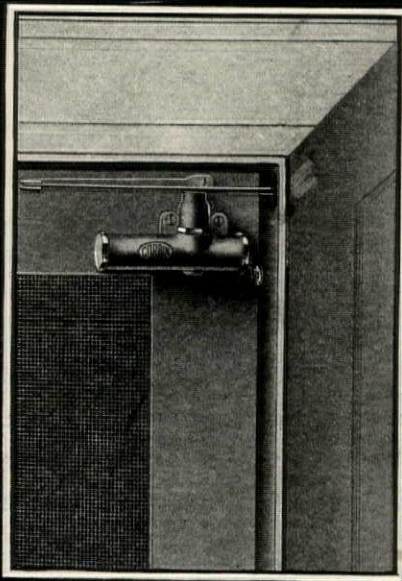
a volume without peer for the art lover and for the library table. It is a most appropriate holiday gift—desirable and in excellent taste.

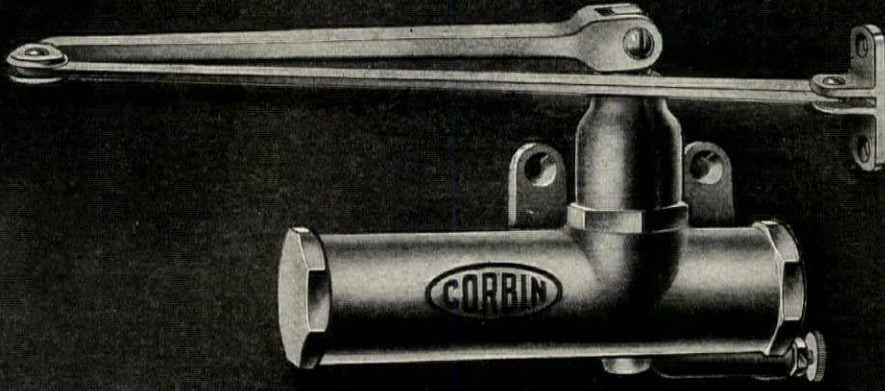
REMEMBER the paintings of the Luxembourg are of such great value that the French government have placed them in hiding, far from the raids of the Kaiser's legions.

We will send this volume (express prepaid) direct to any address on receipt of \$5.50. This offer holds good only for the Holiday Season as the regular price of the book is \$8.00 per volume.

NE ARTS JOURNAL
North Michigan Blvd., Chicago



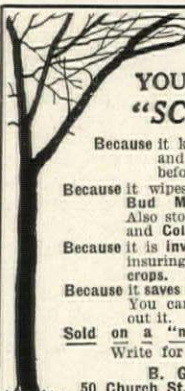


THE CORBIN SCREEN DOOR SILENCER

We believe this to be superior to any other Screen Door Check on the market. It has the same checking mechanism as the other Celebrated Corbin Checks, and is made with two sizes of springs for light and heavy doors. It is right or left hand without change, and works equally well in either direction. It requires only three inches of space between the screen door and entrance door, is easily applied, easily adjusted, and requires no attention. It can be sold at popular prices, and is certain to have a large sale. Any Corbin dealer can give full information—or write us for particulars.

P. & F. CORBIN
The American Hardware Corporation, Successor
NEW BRITAIN, CONN.
CHICAGO PHILADELPHIA

NEW YORK



**YOUR TREES NEED
"SCALECIDE"**

Because it kills every kind of scale and destroys the aphids eggs before they hatch.

Because it wipes out the Pearl Psylla, Bud Moth and Case-Bearer. Also stops the growth of Canker and Collar Rot.

Because it is invigorating to tree growth insuring better fruit and bigger crops.

Because it saves money, time and trouble. You cannot afford to do without it.

Sold on a "money-back" proposition
Write for Circular No. 13
B. G. PRATT CO.
50 Church St. Dept. 2 New York

LEPAGE'S CHINA CEMENT

STANDS HOT AND COLD WATER 10¢

Now Is the Best Time



No. 8—"Martin House," 14 Rooms, \$20

The Crescent Co. "Birdville"

Erect this 14 roomed Martin House \$20.00. Others at \$4.00, \$5.00 and \$10.00

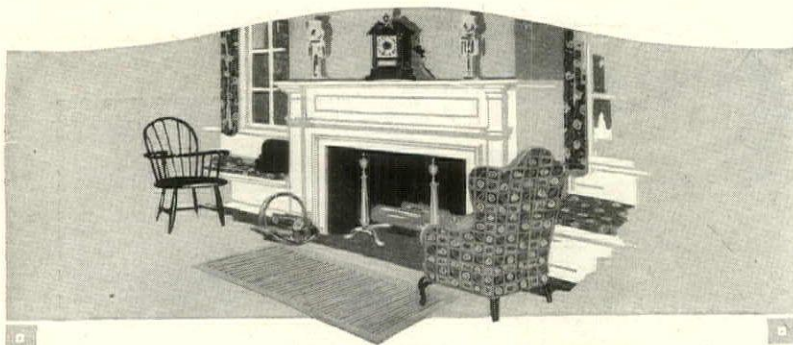
Our famous three Bird Houses for \$3.50

Booklet "Bird Architecture" free with every order.

Toms River, N. J.

Booklet "Bird Architecture" free with every order.

Toms River, N. J.



No One Enjoys the Annual "Repainting"— No One Has to Undergo It!

Don't paint your home at all—enamel it this year. Enamolin, the whitest and most durable enamel in the world, will beautify and protect your woodwork, doors and furniture for years without the need of refinishing.

Enamolin has a finish so smooth and porcelain-like as to make a painted surface seem positively rough and harsh in comparison. No dust can settle on the Enamolined surface, while finger marks and dirt can be scrubbed off with Sapolio and water without fear of cracking or marring.

When you have protected and beautified your woodwork with Enamolin, take care of your floors with Namlac Floor Finish—give them a lustrous surface, so elastic as to withstand the tramping of feet, the dragging of furniture and even the spilling of hot liquids.

Enamolin and Namlac are on sale at the better paint and hardware stores. If you cannot secure them, write to us.

EMIL CALMAN & CO.

ESTABLISHED IN 1850
100 William St. New York

Ask for free copy of "The White Spot" booklet. A sample can of either Enamolin or of Namlac Floor Finish sent for 10c. Address Household Dept.

Enamolin
The
Whitest
Enamel
in the world



The Truth About Dwarf Fruit Trees

(Continued from page 82)

aim. We must have a short jointed, stubby growth of a healthy type, and the best means of securing it is by summer pruning. If the tree is allowed to grow unmolested it devotes its energy to building a large framework; by checking this growth at the right time, the sap is utilized in producing fruit buds.

This applies more particularly to trees of the spur bearing type, such as the apple and pear. The peach, plum, etc., fruit on new wood, and their pruning should consist of the removal of weak interior shoots, and not the stopping of leaders. Summer pruning must be practiced at the right time: if too early, it starts the tree off in renewed growth, and if delayed too long the result aimed at is lost. You can't make any fixed date, for seasons differ; the growth is the only guide, but usually around the middle or the latter part of July is the proper period for the work.

Undue growth is stopped by pinching out the tops. If you wish to try it, it is an easy matter to grow your own dwarfs; the time involved is the only drawback, but it is interesting work and there is a lot of satisfaction in having something produced by your own efforts. Buy one-year-old grafted stock—"whips," they are commonly called—cut them almost to the ground and place a stake at each tree. After growth starts, they must be kept trained in the desired shape. In six or seven years you will have full fledged fruiting trees.

Dwarf fruit trees should be trained. For small orchard work the standard type of dwarf is, of course, adaptable, but the trained forms can be used for so many other purposes besides supplying fruit, that they are strongly recommended. A trellis of some kind is necessary, a good one being made of posts 5' above ground, set 12' apart with a strand of wire about every foot. Use spring coil wire which will not sag, or lacking this, a small turnbuckle should be placed in each strand. Tomatoes and other vegetables that require training can be used on the trellis until the trees require all the space that can be provided.

PRACTICAL VARIETIES

A number of these miniature trees are from imported stock. Some of the French varieties, although of exceptional quality, are not what we would term ironclad in the latitude of New York. Farther south they may

be tried and found satisfactory. In apples, Golden Harvest, Transparent and Duchess of Burg are all good early varieties. Alexander, Gravenstein and Reinettes are good mediums. Late apples, Beauty of Kent, Baldwin and Calville Blanche are good dependable varieties.

Bartlett, Clapp's Favorite and the variety of Congress are satisfactory early pears. Medium ripening varieties of good quality are Bonne de Jersey, Belle de France, Nouveau Poiteau and Conserve de la Cour, while Beurre de Beurre diel, Le Lecteur and D'Alphonse will be found very satisfactory for late varieties.

Among peaches, Hale's Early Rivers, De Hogg, Almond, Sterling Castle, and Barrington are all good varieties. Nectarines, while requiring considerable protection in the north, are worth the effort. St. Victoria, Lord Napier and Elberta are good standard varieties.

Cherries make a typical tree. Bigarreau, Napoleon, Tartarian, May Duke, Gov. Wood, Bigarreau White are all good.

Apricots can be grown in the latitude of New York if protected during winter; straw mulch on the branches is all that is needed. Moorpack and Royal are the best fitted varieties. In plums, Early Favorite, Jefferson, King, Reine de Bavay will be satisfactory.

Dwarf trees are no more subject to disease or the attacks of fruit-eating insects than any other class of fruit. Spraying with poison when in flower to kill the codling moth is recommended, as is also frequent spraying with Bordeaux Mixture during summer to keep down fungous diseases. Borers can be controlled by preparations which are sold for this purpose. If they get started, kill them by thrusting a steel wire in the holes they make.

It is perfectly safe to plant dwarf trees in the fall; in fact, it is to be recommended. The trees are generally speaking, the best planted in the spring, but with protection they may be set in the fall. They should be ordered early, as in cases they are imported and the necessity of getting stock is a tedious one. Don't be caught; order now.

Rich Color in the New China and Glass

(Continued from page 49)

again shown in a new design in the salad bowl and plates of domestic porcelain illustrated at the left of page 49. A salad set is always interesting to the up-to-date hostess, and the salad set shown is one of extreme smartness. The bowl and six individual plates are octagonal, and a large flower design is of red, yellow, blue and green on a white ground. The top of the bowl and the edge of the plates has a narrow border of the green. \$6.50 complete.

A more conservative design, and one which is quite inexpensive, is shown at the lower right of page 48. The border of the plate is spotted at regular intervals with large decorative ovals in black and dark green. On either side of these spots are small red conventional designs which continue in a line around the plate. The narrow border at the top combines

the red, green and black. The table dish is decorated similarly and comes in a very attractive shape. This is an open stock and the shapes of the small tea pot and other small articles are very attractive in design. The set can be had for \$57.20. They are \$6.75 a dozen.

A beautiful color is always wanted in any home, especially when in the gracefully shaped and impressive flower bowl, such as shown in the lower center of page 48. This Japanese bowl is of a bright green shade and also comes in yellow. It stands on a small pedestal. A green china dolphin is to hold the flowers in this bowl. This little dolphin holds the edge of the bowl by its tail. The bowl and holder had complete for \$1.25.

LA PLACE THE Antique Shop

Estab. 1880

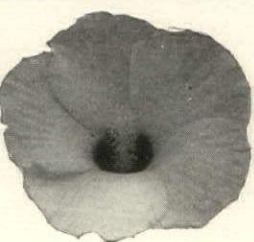
Brass Lamps
Door Knockers
Bookcases
Card Tables
Cellarettes
Old Crystal
Petit Pt. Chairs
Highboys
Lowboys
Desks
Gilt Mirrors
Buffets
Serving Tables
Limoges Enamel
Leather Screens
French Suites
Toilet Tables
Queen Anne Walnuts
Sideboards
Consoles, etc.

A "La Place Antique" because of its rare design and value is invariably chosen by the discriminating for gifts.

Suitable pieces, large or small, are here in varied patterns, so that satisfactory selection may be assured in ANTIQUE FURNITURE and FAITHFUL REPRODUCTIONS, RARE OLD SHEFFIELD PLATE, OLD CRYSTAL, BRONZES, TAPESTRIES, CURIOS, ORIENTAL PORCELAINS, PERIOD MIRRORS, OBJECTS D'ART, INTERIOR DECORATIONS, etc., etc.

VISITORS ALWAYS WELCOME

11 East 48th Street — NEW YORK — 242 FIFTH AVENUE



Meehan's Mallow Marvels

absolutely hardy perennials surpassing beauty, originated by us. The sturdy shrubs, 5 to 6 feet high, are covered with gorgeous blossoms from July until frost. conspicuous and dazzling velvety for any lawn or yard. order now.

Strong 2-year roots, Pink or White, cents each, 5 for \$2.00; Red 75 cents, 5 for \$3.00; mixed colors 35 cents, 5 for \$1.50.

Write for Meehan's 1917 Hand Book Today describes hundreds of choice, well-known Trees, Shrubs and hardy Flower-Plants and tells how to grow them successfully. Mailed free.

THOMAS MEEHAN & SONS
6740 Chew St., Germantown
Philadelphia, Pa.



Where Birds Are Coming Let Them Be Your Guests

Place bird houses on your grounds and the birds will protect your fruit and shade trees. Our folder illustrating 40 designs is FREE. Write today.

CHICAGO BIRD HOUSE CO.
1 So. Leavitt St., Chicago, Ill.



54 in. long, 17 in. wide, 17 in. high
\$26.00 Delivered in U. S. A.

QUINE INDIANA LIMESTONE

GARDEN FURNITURE
on Studios, Bedford, Ind.

SUNDIALS
real bronze Colonial designs from \$3.50 up; also Bird Baths, Garden Benches, Fountain Sprays and other garden requisites, manufactured by THE M. D. JONES CO., 71 Portland St., Boston, Mass. Illustrated catalogue sent upon request.

BIRD HOUSE

PLANS. Make your garden "different" with home-made houses designed by A. Neely Hall, pioneer bird-house builder. Birds will return to them year after year. You make your garden. Why not its bird houses? Your boy or neighbor's boy can help. A Neely Hall's 25 copyrighted tell-how plans, used everywhere in school and by campaigns, hints for a boy's factory, membership in the American Bird-House League, certificate, badge, etc., for in coin. Catalogue for stamp. Together Handicraft Shop, Dept. D, Elmhurst, Ill.



White Houses Are Beautiful When White

THE popularity of the white house which has been going forward by leaps and bounds, has fully come into its own since a material was found that makes it permanently white, stainless, and waterproof.

MEDUSA WHITE-CEMENT WATERPROOFED

is science's answer to the white house problem. Here is a material that combines Medusa White Cement with Medusa integral Waterproofing.

For exterior finish on concrete, hollow tile or metal lath its use insures a permanent marble-white finish that will not stain or discolor and is absolutely water and damp proof. Medusa has the unequalled endorsement of the country's leading architects and contractors.

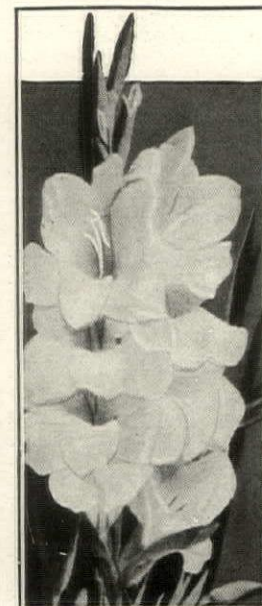
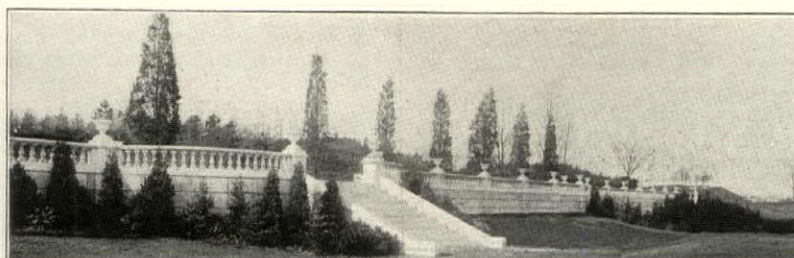
The illustrations show the use of Medusa White Cement for the Residence of John C. Reid, Wheeling, W. Va. C. W. Bates, Architect; Wm. C. Baughman, Contrac-

tor; and a Concrete Terrace on the J. B. Duke Estate, Somerville, N. J., Buckingham & Miller, Architects; Richards & Gaston, Engineering Contractors.

Write for illustrated booklets "The Medusa White House" and "Medusa Waterproofing." They contain valuable information for the architect, contractor and home builder. They show the artistic effects that can be obtained with a pure white waterproofed cement like Medusa. Write today.

Make Your Concrete Water-proof When You Build.

THE SANDUSKY CEMENT COMPANY
DEPT. D. CLEVELAND, U. S. A.



Gladioli

EXCLUSIVELY

Masses of color out of doors. Unsurpassed for house and table decorations. No better bulbs grown anywhere. My 60 "Cedar Acres" produced over seven million quality bulbs the past season, so I am not dependent upon foreign importations.

Beautiful illustrated booklet free. Describes the new and marvellous creations as well as the old varieties and lists interesting collections and special color mixtures.

Plant 100 Cedar Acre bulbs and you will be a Gladioli enthusiast next summer.

Cedar Acres

B. HAMMOND TRACY, Box 17, Wenham, Mass.



WAY back in 1825, our Minister to Portugal asked his friends to send him an assortment of Thorburn's Seeds, so he could grow some vegetables such as he "used to have at home."

Since 1802, Thorburn's Seeds have been known for reliability and results.

Full instructions for planting and culture are given in our catalogue.

Send for
One of our finest
Novelties—New
Rudbeckia—

A Hardy Dwarf Perennial with double, semi-double and single flowers, desirable for beds and borders. Beautifully colored yellow and orange petals, splashed in varying degrees with darker shades of red. Also mahogany and chocolate, with purple or yellow centers.

If sown early in March under glass, will flower the first year.

25c the packet

J. M. Thorburn & Co.
53-D Barclay St.,
through to
54 Park Place,
New York.



Send for this
free catalog,
and have a suc-
cessful garden.

Robins will live in Rustic Homes

A study of birds and their nesting places have enabled us to build houses for every specie, in which only its kind will nest.



No. 4, \$1.00
Robin House

Robins nest early—place houses now

Our houses are well built—finished products—of rustic cedar. You buy them by mail direct from manufacturer.

Send \$1.00 now for Robin House No. 4 and write for Catalog B-2, showing other Bird Houses and Rustic Furniture.

JERSEY KEYSTONE WOOD CO.
Trenton, New Jersey

SPECIAL SALE OF GARDEN FURNITURE

Marble, Terra Cotta and Cement Vases
from \$5.00 Upward
Benches from \$10.00 Upward
Gazing Globes

Wrought Iron Work a Specialty
ELMORE STUDIOS
3-5 West 28th Street, New York City

Plant Foods and Feeding

(Continued from page 54)

Builders' Locks
House Hardware

Padlocks
Night Latches

Cabinet Locks
Trunk Locks

Motor Car Locks
Prison Locks

Time Locks
Dial Locks

Safe Deposit Locks
Post Office Lock Boxes

Door-Closing Devices
Master-key Equipment

Chain Blocks
Electric Hoists

Locks and Hardware

World-Standard

The greatest products in the world reach a peculiar plane of eminence.

They become standard.

Yale Products, for nearly half a century, have been the accepted standard by which locks and hardware are judged.

Yale Products are world-Standard.

Look for the name "Yale" on the product—it is your guarantee

AT ALL HARDWARE DEALERS

The Yale & Towne Mfg. Co.

9 East 40th Street

New York City

Chicago Office: 77 East Lake Street
Canadian Yale & Towne Limited, St. Catharines, Ont.

to digestion take place, the inorganic plant food which has been absorbed from the soil being changed into organic forms.

This elaborated plant food is in its turn redistributed through the plant to every part that is developing or making growth, and thus cells that are forming new tissue are fed. But an even more remarkable fact remains. The plant foods or nutritive elements, once taken up, are transuded through the plant both from the roots to the leaves and from the leaves back through the plant, independently of the flow of sap! The movement of the sap—which is, of course, mostly water—is determined by the temperature, the amount of moisture in the soil, and many other controlling factors. At times it ceases altogether, but the distribution of the nutritive elements in the plant continues through a slow process of diffusion in all directions.

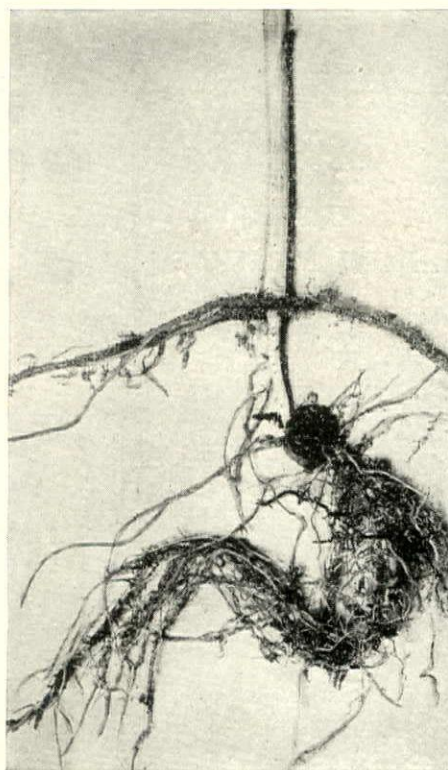
The plant foods which we have spoken of as being absorbed with the soil moisture by the roots, are a dozen or so of different chemical elements. Most of these are present in every soil suitable for garden purposes in sufficient quantities to supply all the plant's needs. There are three, however, likely to run short: nitrogen, phosphoric acid, and potash—and the worst thing about it is that if any one of them is short, a superabundance of the others will not in the slightest degree make up for it. Every plant that grows is so independent that it has to have what it wants when and how it wants it, or it will balk then and there! For that reason we call any of these food materials which may be deficient the "limiting factor;" for until that deficiency is made up, the plant will not continue to make the greatest growth of which it is capable. So it behooves the gardener who would grow the biggest flowers and the best vegetables to see that the supply of none of these foods in the garden cupboard runs low.

That, you may say, should be a simple matter; but—

While the number of plant foods, or rather of food elements, is few, the forms or combinations in which they may be found are innumerable. It is because they do not realize this fact that many gardeners get off the track in trying to keep their plants well fed and thriving.

SUPPLYING AVAILABLE FOODS

We have seen that the plant's roots can take up only such food materials as are in solution—that is, as the soil moisture is capable of dissolving. Nitrogen, phosphoric acid, and potash also exist in many forms which are not affected by contact with the soil, and therefore cannot be used in that state by the plants. Such materials are called unavailable, because the plants cannot use them until they undergo a chemical change which makes them soluble. It is the gardener's business, therefore, in adding plant-foods to his garden, to make sure that they are



The root system is wonderfully involved and yet admirably efficient. This shows the below-ground part of a corn seedling.

in forms that his plants can make use of. It is his further business, every method he can of changing unavailable plant foods already in the soil into available forms. Just as good as, and usually a deal cheaper than, adding them to the outside.

You have probably heard of fertilizers in connection with the use of fertilizers that some of them are particularly useful because they are "acting." This means simply that nitrogen, phosphoric acid, potash, lime which they may contain forms which will at once dissolve in the soil, or very quickly become available for making the soil richer. They have frequently been mentioned in this magazine. The practical effort you can get from knowing facts is that when buying any fertilizer the percentages put down "available," in the analysis given, the ones which really count in determining its value so far as your garden is concerned. The plant already latent in your garden. Nature, herself, continues gradually to make available, but one of the most important tasks of the successful gardener is to speed up leisurely methods of going about it. There are three chief factors which help in this important work.

First, the more finely the soil particles are pulverized, the more easily these desired physical and chemical changes will take place.

Second, the conditions of moisture and heat favorable to chemical action should be maintained as far as possible.

Third, the presence of bacteria in the soil which helps these changes should be increased in every way that is possible.

All these things are expressed in terms of actual work in your garden when you break up and till the soil when you cultivate it so as to serve moisture; when you introduce bacteria through the liberal use

(Continued on page 88)

Salzer Vegetable Seeds Grow

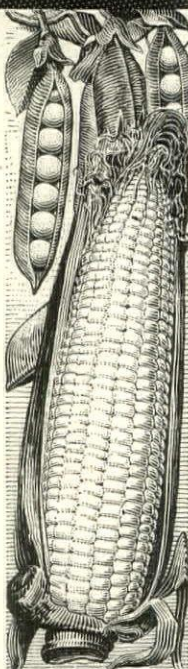


Northern grown, tested strains of highest germination and vigorous growth. Results meet your fondest expectations—and then some.

Special
Get-Acquainted Offer!
10 Big Packages, 25c

Beets, Cabbage, Carrot, Cauliflower, Cucumber (Prolific pickle), Leaf Lettuce, Melon, Onion, Radish, Tomato. All 10 and our big, new 184-page catalog and a package of Salzer's 1917 Specialty Mastodon Asters for only 25c. Send today and we'll include FREE our coupon good for 10c on future order. 49 years' experience back of every sale. Don't miss this grand opportunity. Write today.

America's Headquarters
For Field Seeds
49th Year



JOHN A. SALZER SEED CO. Box 600 LACROSSE, WIS.

Farr's Hardy Plant Specialties

This new edition for 1917-18 is more complete and helpful than any of its predecessors. In its completeness it is a textbook that no reader of HOUSE & GARDEN will wish to be without.

Special Features of this Edition

PEONIES. In the Germanica section there will be some notable new introductions from Europe and my own Panama-Pacific Gold Medal Collection.

In the Japanese section there will be the first offering of a series of new seedlings of my own hybridizing.

PEONIES. I shall include a number of fine varieties, which, owing to limited stock, I have not been able to offer heretofore.

FREE PEONIES. The purchase of the noted collection of tree peonies owned by Brochet & Sons, Chateaufort, France, together with the unique assortment of the beautiful Japanese varieties, gives me a collection of over 300 varieties. All of these are established on their own roots.

PLACES, ROSES, EVERGREENS. Many new, rare, and desirable varieties are included in these sections.

To insure receiving a copy of this edition you should send your name and address now. As soon as the work is completed the book will be mailed to you without cost.

Bertrand H. Farr
Wyomissing Nurseries Co.
106 Garfield Ave.
Wyomissing, Penna.

SHORTHAND

Offers You a Big Future This Year

SOLVE TO-DAY that during this year you will accomplish something especially while. Commence devoting some of your spare time to acquiring the accomplishment that opened the way to fortune for such successful men as Frank A. Derlip, Pres., National City Bank of New York; George B. Cortelyou, Pres., Consolidated Gas Co. of New York; John Cashman, Gen. Mgr., Wall Street Journal; and many others.

That accomplishment is **EXPERT SHORTHAND**—not the mediocre shorthand that fits you for a poorly paid position as an ordinary office stenographer, but the specialist's shorthand that trains you to fill the most responsible and most highly paid positions in the stenographic field—positions paying from \$2,000 to \$5,000 yearly—and in some cases much more than that.

Robert F. Rose will train you, by mail, in this expert work. He will teach you the same system that has made him one of the most expert shorthand writers in the country and qualified him to make accurate reports of such important events as government legal cases, national political conventions, etc.—work which requires the highest degree of speed and accuracy and which pays almost incredible sums to the reporter.

You are completely protected by a money-back guarantee in case you are dissatisfied with this course. We co-operate in securing positions for you when you finish.

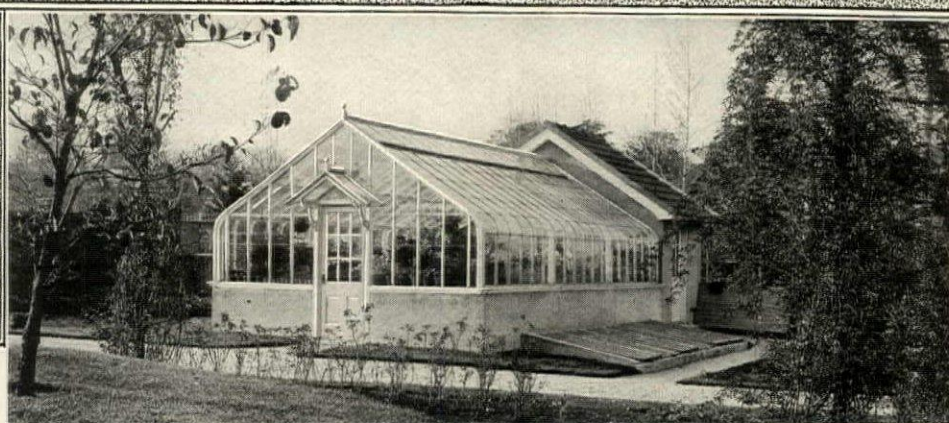
If you are already a stenographer, you can take the Rose Course. Ordinary shorthand will not win for you the high-salaried position. You need **EXPERT** shorthand—and this course will give it to you without interference in any way with your regular work.

and for the Free Book HOW TO BECOME A MASTER OF SHORTHAND—it will be sent with full particulars of the Rose Course without putting you under any obligation of any kind.

Make This Start to Success—NOW solve that in a short time you will master expert shorthand that leads so directly to independence. The first step is to send for free information. Do it now!

Wagnalls Company, Dept. 923, 354 Fourth Ave., N. Y.

LORD & BURNHAM CO.



Some Good News To Those Interested In Having A Moderate Sized Greenhouse

AS near as we can make out, there are a lot of people who very much want a greenhouse, but hesitate to make a move to find out definitely about them. Hesitate because of having an impression that they are a rich man's luxury.

There seems to be no middle ground with them, between one made out of an old piano box and discarded photo plates, and the elaborate house of tip-toe price.

Which, of course, is a decided mistake.

If you have a garage or some other building you can attach one to; \$1,000, \$1,500 or \$2,000 buys splendid little houses, constructed with everything the very best. Houses of Everlasting Lastingness.

It's doubtful, however, if anything much below these prices will give you anything that will continue to be a satisfaction and pleasure—year after year.

Greenhouses do need to be skilfully built to be successful. It's not a carpenter's job. It is work for greenhouse experts.

To the better focalize the question, we have an informative little booklet No. 118, called Two G's, or Glass Gardens, a Peep Into Their Delights. It will straighten out a lot of queries for you. Send for it.

Naturally, we would like to build your greenhouse.

Anytime you want to talk it over, one of us will gladly meet you at the time and place you may suggest.

SALES OFFICES

NEW YORK
42nd St. Bldg.
CHICAGO
Rookery Bldg.
DETROIT
Penobscot Bldg.
BOSTON
Tremont Bldg.
ROCHESTER
Granite Bldg.

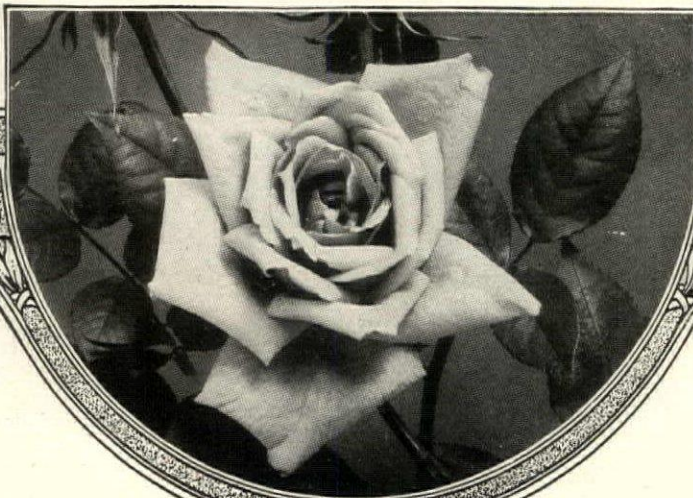
TORONTO
Royal Bank Bldg.

LORD & BURNHAM CO.

Builders of Greenhouses and Conservatories

SALES OFFICES

PHILADELPHIA
Widener Bldg.
CLEVELAND
Sweetland Bldg.
MONTREAL
Transportation Bldg.
FACTORIES
Irvington, N. Y.
Des Plaines, Ill.
St. Catharines, Canada



Underground Garbage Receiver

Keeps your garbage out of sight in the ground, away from stray dogs, cats and the typhoid fly. Also saves pounding of frozen garbage.

SOLD DIRECT

SEND FOR CIRCULAR

12 years on the market. Look for our Trade Marks

C. H. STEPHENSON, Mfr., 20 Farrar St., Lynn, Mass.



Use

CRANE VALVES

in the home

RIPE TOMATOES



earlier than you ever had before
THOUSANDS

of up-to-date gardeners are making big money—you can do the same. Don't be satisfied with a garden like the other fellow—beat him to it. Have a garden that you'll be proud of, a garden that will bring the admiration of your friends. No matter how

backward the Spring, it's easy with

THE BALL SEED & PLANT FORCER

Send for my Beautiful **BOOK FREE**. It's chock full of the latest developments in modern gardening. It gives you gardening information found in no other publication. It tells you how you can have a garden with flowers in full bloom and vegetables for your table a month earlier than you ever had before. Just drop me a post card and I'll send you your copy by return mail.

THE BALL MFG. CO.,

Dept. V.

Glenside, Pa.



DESCRIBED more in detail in Mott's new 138-page "Bathroom Book," which illustrates the latest examples of plumbing fixtures for bathroom, kitchen and laundry, and shows 22 model bathrooms, with full descriptions and prices. Mailed for 4c postage.

Any plumber can give you an estimate on Mott's plumbing fixtures installed complete.

OUR newest contribution to modern bathroom equipment is the vitreous china lavatory with vitreous china wall brackets. A high grade Mott fixture of exceptional beauty. Eliminates the usual pedestal—simplifies bathroom cleaning.

Another new Mott fixture is the needle and rain shower in combination with Mott's light-weight porcelain bath. When not in use the needle shower arms fold back against the wall.

THE J. L. MOTT IRON WORKS

Fifth Avenue and 17th Street New York

1828—Eighty-nine Years of Supremacy—1917

†Boston
†Pittsburgh
†Chicago
†Minneapolis
†Atlanta
†Philadelphia

Seattle
Cleveland
†Detroit
†Des Moines
†Toledo

Portland, Ore.
†Washington, D. C.
Columbia, S. C.
New Orleans
Denver

†San Francisco
†St. Louis
†Montreal, Can.
San Antonio
Dallas, Texas
Los Angeles

†Showrooms equipped with model bathrooms

Rare Tulips

are rather common in my gardens at Mayfair. Such things as Amber Crown, Mrs. Kerrell, Pride of Inglescombe, Solferina, Twilight, Jubilee, Madame Raven, Valentin, Bacchus, Garibaldi, Groote, Samson, Indian Chief, Paladin, Prince of Wales, and others for whose names there is no room here, are described in detail in

The Blue Book of Bulbs

The new issue for 1917 will be ready for distribution about April 10th. Write me now to reserve your copy.

CHESTER JAY HUNT

Mayfair

Dept. K.

LITTLE FALLS, N. J.

Plant Foods and Feeding

(Continued from page 86)

manure and other bacteria-containing materials; when you keep the soil well opened up so that warm air can penetrate it; and when you maintain the supply of humus, which is essential to the growth and spreading of bacteria.

There is one more idiosyncrasy of plants which the gardener should know about. They have, like Jack Spratt and his wife, their own ideas as to what is preferable in the way of food. The chemist can analyze a plant and tell what it has taken in from the soil, but he cannot tell in what forms the growing plant will prefer to have its food supplied. For this reason it is always advisable to supply the plant food in the garden from a number of different sources. This is especially true of the vegetable garden, where all kinds of crops are grown in close proximity. This habit of having a course dinner rather than a meal of two or three dishes has the further advantage of supplying the different plant foods continuously throughout the season, as the same elements in different materials become available at different times.

THE ROOT SYSTEM

In order to fix definitely in mind this rather complex business of how plants live, let us attempt to picture, knowing the facts we have been discussing, just what happens when the roots of a plant penetrate a well prepared soil. One of the photographs shows part of the root system of a young corn seedling which I started in sand and a little compost, and carefully took up, removing from it all the soil which could be readily shaken off.

As the roots push out through the soil, on most plants they branch freely in all directions. It is a commonly accepted idea that they seek out the rich spots in the soil. In the photograph you will notice that some of the roots are much longer and less branched than others, while some are made up of thick clusters of rootlets still grasping tenaciously the compost on which they fed. What really happens, however, is this: when

a root strikes a "pocket" rich in elements, there is an extra development of the lateral or branch roots. The moisture in the soil contains the various plant foods in solution and clinging in a thin film about microscopic particles of soil, is absorbed through the porous sides of the root hairs. The amount taken at any one source is, of course, conceivably minute, but as there are literally millions of them in a cubic inch of soil, their united efforts attain very perceptible results. The tips of the roots are not provided with these feeders as they die off from the older parts much as the leaves and twigs fall from the bases of the main branches of a tree.

THE SAP FLOW

The soil moisture, carrying the dissolved plant foods, flows through the roots and up through the main stem if evaporation is taking place, which usually occurs during the growing season. By this greater part of this moisture is forced off into the air again through the leaves. Even if temporarily there is no movement of the "sap," however, the plant foods, as already described, find their way to the places where they are mixed with oxygen and hydrogen and so altered that they are ready for assimilation by the perpetually newly forming parts of the growing plant, which they are redistributed.

And so, silently, invisibly, in many cases with incredible rapidity the newly-come-to-life little without eye or hand or foot to aid in its struggle for existence, is enabled to one spot and another, make any change in its environment sets swiftly and directly about its purpose in life. That purpose is to elaborate a root system that will develop stems and leaves; to reach to the sun and wind and rain, leaves, in order that it may gain strength to bud and flower, finally to complete its cycle of life, a few days, or of hundred years, and leave after it seed or spore to provide a new generation.

Naming the Country Place

(Continued from page 56)

The following may be taken as they are, or split or combined to suit; Berwick, Clovelly, Dovedale, Eglantine, Fairview, Hambledon, Ingleside, Inglenook, Lilac Lane, Otter Creek, Oureden, The Lindens, Vervain, and Woodcote.

We did not look into the possibilities of the more ambitious names like Castle, Manor, Mansion, or Hall; nor did we investigate those in foreign tongues.

These from the old English are pleasing for names of suburban or country homes. Each is composed of two words, and if one is not familiar with the italicized portion of the title, it should be looked up, as all are descriptive of scenic elements; Barberry Brae, Benbarton, Closegarth, Cloverlea, Fenland, Fernbeck, Garthdale, Glenburn, Greenfells, Hazelwold, Homecroft, Lyndon, Midhurst, Sedgemead, and Southdown. Again, one might use simple Welsh words, such as Durwent, which means "a clear, white stream," or devon, a "dark ravine."

A surname may be used, as Taylor's, or with another name as Hale's

Corners and Scott's Valley. Christian names can be used in various ways as Gabriella Gables, or backward; thus Lydia becomes Lydian. The first two letters of Arthur of Elsie make Arel; the first of each, lady's first, Elsart.

One may find many appropriate names in a gazetteer, as Ar Campden, and Camperdown.

My wife and I did not write many words of different natures in the naming of our home, although we believed in the marriage of the Aryan races, for forebears had been separated by the North Sea. But when it came to words, or to breeds of fowls or mammals, we did not think hybrids.

Considering all, we had trouble with deciding what name should use than the average including the interested relatives and friends, has in naming the first. At last we picked Hillcroft, two old Anglo-Saxon words joined. The meaning, a small field on a hill, near a dwelling, portrayed the perfectly, and it seemed euphonious and unpretentious.

Stimulus Hybrid Gladioli

Flowers medium size, of exquisite tints, veinings and markings, carried on long straight spikes that are superb for cutting. The bulbs are grown at Meadowvale Farms, and are of blooming size only.

One Hundred Bulbs Many Varieties for \$15

Bulbs should be ordered soon—so it will be well to send for the Glory of the Garden.

any Gladiolus booklet for 1917, which will be mailed to you or your friends, if you will send me the correct name and address.

DINGEE ROSES

Sturdy as Oaks. Pot-grown rose bushes, on own roots, for everyone anywhere. Plant anytime. Old favorites and new and rare sorts, the cream of the world's productions. "Dingee Roses" known as the best for 66 years. Safe delivery guaranteed anywhere in U. S. Write for a copy of our "New Guide to Rose Culture" for 1917. It's FREE.

The lifetime experience of the Oldest and Leading Rose Growers in America. A practical work on rose and flower culture for the year. Est. 1850. 70 Greenhouses. The Dingee & Conard Co., Box 374, West Grove, Pa.

A postal will bring it to you by return mail.

W. E. MARSHALL & CO.
Seeds, Plants and Bulbs
West 23d Street New York

Grown in New Jersey under soil and climate advantages, Steele's Sturdy Stock is the satisfactory kind. Great assortment of Fruit, Nut, Shade and Evergreen Trees, Small-fruit Plants, Hardy Shrubs, Roses, etc. Fully described in my Beautiful Illustrated Descriptive Catalogue—it's free!

T. E. STEELE, Pomona Nurseries
Palmyra N. J.

Prize Medal Dahlias

ORBES & KEITH
Catalogue. NEW BEDFORD, MASS.

Hardy Chrysanthemums

through the fall you can cut freely from so generous bloomers.

A Half-dozen Plants to Start Your Collection.
Pompon. Red button flower. Mid-season.
Praza. Anemone-flowered. White. Late.
Iden Climax. Pompon. Bright yellow.
Iden Mensa. Single. Yellow. Midseason.
Ida. Pompon. Deep red. Midseason.
Iden Beauty. Pompon. Deep rose-pink; medium.

Long Pot-grown plants. One of each variety 75 cents. Two plants of each for \$1.25.
BAUR'S PLANT CATALOGUE
be sent to all who ask for it. It contains some special attractions in perennials, roses, shrubs. Write for it today.

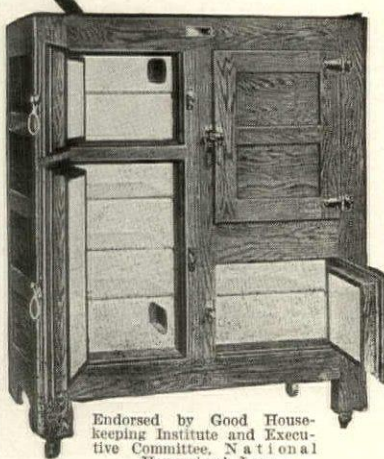
Baur
Floral Co.
15 E. Ninth St., Dept. E, Erie, Pa.

Here's The Book That Shows How To Reduce Your Ice Bills!

Right now's the time to plan for next summer's hot weather! Protect yourself against exorbitant ice bills—against the possibility of having half-spoiled, germ-infected food—against offensive odors and unappetizing conditions.

This handsomely illustrated, interesting, 36-page Free Book is crammed full of scientific facts about home refrigeration and the preservation of food. It tells how to cut down your ice bills and what to look for in buying a refrigerator. Gives many practical money-saving hints to housewives; tells all about the famous

MONROE Solid Porcelain REFRIGERATOR



With beautiful, snow-white food compartments molded in one piece of genuine inch-thick solid porcelain ware, with every corner rounded, assuring absolute cleanliness. Not a single crack, crevice or corner to harbor dirt, germs, moisture and odors. A handsome, expertly-built, lifetime Refrigerator that locks out the heat and assures maximum coldness and dryness and minimum ice consumption. Used in the best homes and leading hospitals throughout the country.

Shipped Direct From Factory—30 Days' Home Trial—Freight Prepaid—Easy Terms—Satisfaction Guaranteed.

Send for this Free Book today, and solve your food preservation problems for all time to come. Learn why the "MONROE" is the only Refrigerator YOU can afford to have.

Monroe Refrigerator Company
(A Quarter Century in This Business)
43 Benson St., Lockland, Ohio

Endorsed by Good House-keeping Institute and Executive Committee, National Housewives' League

Planning to Build?



Then mail the Coupon below and receive free three attractive and valuable issues of *The Architectural Record*—each containing a careful selection of the best work of leading architects, with an average of 100 or more illustrations, including exterior and interior views and floor plans.

The Architectural Record is an artistic monthly magazine illustrating the latest work of the most successful architects throughout the country. It covers the entire field of architecture in every issue; houses of architectural merit are presented.

From a study of these houses you are sure to get helpful ideas and suggestions for attractive exteriors, convenient arrangement of rooms, appropriate furnishings, etc.

In the business section you will also find described the latest and best building materials as well as the furnishings and specialties which add so much of comfort, convenience and value.

The Architectural Record—authoritative and professional—will help you to decide many of the perplexing problems which must be settled by every person who builds, and will thus save much valuable time when you consult your own architect.

Mail the coupon to-day and get the benefit of this
SPECIAL OFFER

Our January, February and March numbers will be sent free if you subscribe now to start with April, 1917. You will thus receive 15 attractive and valuable numbers for only \$3—the regular yearly price.

The Architectural Record
119 W. 40th Street, New York

Name
Address

H. G. 3-17
THE ARCHITECTURAL RECORD
119 W. 40th St.
New York City:

Send free your January, February and March numbers and enter subscription for a full year beginning April, 1917, for which find \$3 enclosed (add 60 cents for Canada, \$1.00 for Foreign).

Would you have a Real Lawn?

Most of the component parts of a grass seed mixture which would produce such a lawn are grown only abroad. Despite war conditions, we offer our well-known imported, hardy lawn seed mixtures at practically no advance in prices. Order now—the supply is limited. But the quality is very choice.

Prices reasonable. Send for lawn folder.

Barwell's Agricultural Works
Waukegan :: Illinois

Best Nursery Stock Ever Grown

Evergreens, Fruit and Ornamental Trees, Flowering Shrubs, Hedge Plants, Vines, Roses, Hardy Perennials. Preparing of Plans, Laying out of Grounds, Tree and Shrubbery Decorating Work.
The STEPHEN HOYT'S SONS CO., Inc.
Landscape Gardeners and Nurserymen
Tel. 333 New Canaan, Conn.

For the World's Best Dahlias write the "Dahlia King" for free illustrated CATALOG and CULTURAL GUIDE FOR 1917

Six New Dahlias everyone should grow; all being free-flowering and of good size. Regular Achievement (Collarette), maroon, price white collar\$0.50
Caecilia (Peony), lemon-yellow50
J. K. Alexander (Colossal), purple 1.00
J. M. Goodrich (Decorative), salmon75
Maude Adams (Show), pink and white50
Mima Burgie (Decorative), scarlet50
Collection for \$3 prepaid. I highly recommend these.

J. K. ALEXANDER
425-435 Central St.
East Bridgewater, Mass.
Alexander Specialties
DAHLIAS, GLADIOLUS,
PEONIES, IRISES,
P H L O X , Hardy
Plants and Ornamental and Flowering Shrubs.

CHOICE ANTIQUES

Fine old colored glass, spinet desk, curly maple highboy, fire-slat arm chair, Field bed, one pair glass chandeliers, stencilled and painted furniture, Lowestoft, dark blue, pink and copper lustre. Hepplewhite sideboard, pewter, Bennington, English pottery, fire screen with old silk picture, mahogany shelf clock, Terry clock. Send for list.
MRS. CHARLOTTE E. PAGE
66 Atwater Terrace, Springfield, Mass.

SPRAY! Get the FREE Spraying Guide



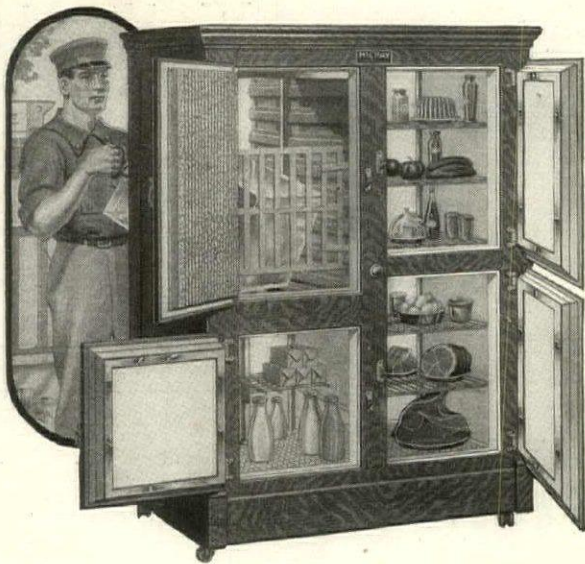
Bigger Crops! Better Quality

It will pay you big to spray the Brown's Auto Spray way this year; then you can be sure of thorough spraying. And then you can be sure of more, finer fruits, vegetables, field crops, flowers. 400,000 users—farmers, orchardists, gardeners, U. S. Experiment Stations, recommend to you



—in all their 40 styles, hand and power. They especially recommend Style No. 1—shown here. Capacity, 4 gallons, just right for 5 acres field crops or 1 acre trees. Fitted with Auto-Pop nozzle. Thrown all kinds of sprays. Wonderfully fast, thorough work. See it and entire line—at your dealer's. Or write us for low prices. Enc. catalog and Free Spraying Guide.

E. C. Brown Co.
851 Maple St., Rochester, N. Y.



The Modern Home

Has sanitary equipment because efficient refrigeration means healthy food. A McCray Refrigerator is economical, easy to keep clean, efficient in every detail, and it gives you perfect refrigeration. Arranged to be iced from the outside, it is convenient and keeps the iceman out of your kitchen. Make your home really modern by installing a built-in

MCCRAY Sanitary Refrigerator

The U. S. Pure Food Experts selected the McCray for use in the Pure Food Laboratories in Washington after the most careful tests. You can safely be guided by their judgment.

Lined with Snow White Opal Glass—stain proof and acid proof—the McCray is easy to keep clean and absolutely sanitary. There are no cracks or corners for germs to multiply—even the metal bar shelves are removable—and the entire interior can be kept always spotless. All impurities and odors are quickly discharged through the air-tight water-sealed drain pipe.

Let us send you illustrated catalog which shows a great variety of sizes at prices from \$30 up for almost every requirement. Special sizes and finishes to conform with floor plans and match interior finish are built to order.

Any of these catalogs mailed on request:

No. 92 for Residences.

No. 51 for Hotels, Restaurants, Clubs.

No. 70 for Grocers.

No. 74 for Florists.

No. 62 for Meat Markets.

MCCRAY REFRIGERATOR CO.
716 LAKE STREET KENDALLVILLE, IND.

Agencies in all principal cities.

Making the New Garden

(Continued from page 42)

- (1) Pulverize the soil as finely as it is possible to get it.
- (2) Add plant foods which are to a large extent available for immediate use.
- (3) Incorporate with the soil all the humus possible.
- (4) Distribute throughout the soil as evenly and as plentifully as possible "friendly" bacteria.
- (5) Keep the soil well supplied with moisture by thorough preparation, by cultivation and irrigation.

That is the answer in a nutshell, but, like any other nut, there is some cracking to be done before the meat can be of much practical use. And so the gardener must interpret these condensed general principles into actual garden activities, and prepare to do it at once for results this year.

The first thing of all in the actual work of preparing the new garden is to make sure of good drainage. I merely mention that as a reminder in passing, because no soil, old or new, in which the surplus water remains after a rain is good for gardening purposes. Unless the subsoil beneath your proposed new garden and its position assure good drainage naturally, you will have to supply it artificially. This may be done in the individual bed, border, etc., by digging the soil out to the depth of 1½ or more, and putting in a layer of small stones, coal ashes, or some other roughage, making this layer about 18" or so deep. Cover it with another layer of inverted sod, dead leaves, or strawy manure, etc., to prevent the new soil from washing down through the tiny crevices in the stone layer. In some cases subsoiling or draining with tile may be necessary. Details of doing this work may be found in the former numbers of HOUSE & GARDEN.

PULVERIZING THE SOIL

The question of getting the new garden finely pulverized is one of hard work; there is no getting away from that, no matter whether you do the work yourself or stand over some one else to be sure it is done right. If drainage has to be put in, all but the best of the soil removed should be thrown to one side separately, and there worked over and pulverized and re-pulverized with a fork or spade before it is put back. In the vegetable garden or large flower garden or shrubbery border where the soil cannot be thrown out, the plowing or spading should be done with the greatest care, as otherwise, in turning over the soil, there will be very many large, hard lumps buried beneath the surface, escaping attention at the time, but doing their share toward making the garden unsatisfactory during the summer. It is a good plan to prepare the various pieces of ground as early in the spring as the ground can be worked and where possible, to work them over again just as carefully right before planting. In this way the very little extra work demanded will give your new garden soil the equivalent of two or three seasons' pulverizing done in the ordinary way. Where the soil is deep enough to allow it, it is best to "trench" the bed or garden instead of merely spading it—that is, dig it two spades deep, roughly breaking up the lower layer in addition to thoroughly pulverizing the top one. The surface of the soil, by repeated workings over it with a wide prong

hook and iron rake, should be fine and free from roots, stone trash to a depth of at least 2"

When it comes to manure and fertilizers, only the oldest and finest manure you can get (preferably from last year's heap, scrapings from manure pit, or compost from a bed) should be used. If you use of a complete ready mixed fertilizer, get only the best grade, an analysis high in nitrogen can be more certain of getting results, however, by using dried blood, or the highest tankage, as the nitrogen in all becomes available more rapidly in the fertilizer. There are several kinds as well as several grades of ground bone. For your purpose bone "flour" or very fine ground for at least half of the application be made. The bone contains phosphoric acid and nitrogen. analysis for fine ground bone is 3% of phosphoric acid.

A GARDEN MIXTURE

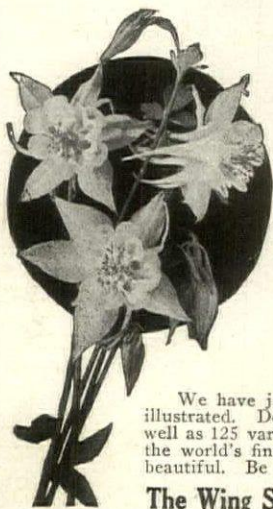
Potash is less likely than either the other ingredients to be the limiting factor, so far as food is concerned in your new garden. Nonetheless, it will be well to use all the wood ashes you can get. ordinary sources of potash will be exceedingly scarce this year. I will make the following mixture for use in your garden: 25 lbs. of soda; 50 lbs. of dried 100 lbs. of acid phosphate and 100 lbs. of muriate of potash, and use the rate of 5 lbs. for each 100 square feet of garden space, supplement it by a good dressing of unleached wood ashes, raked into the surface the things you plant will not have available plant food the first year.

Next, there is the important question of humus to consider. For the only practical source of humus for immediate results was the manure pile or the compost heap. There is nothing better for the new garden than thoroughly rotted, well-rotted manure—it being remembered, however, that there are a few things which too much nitrogen at planting time should be avoided. manure, and especially horse manure, which is the quickest acting, coming increasingly hard to get besides manure under many conditions is inconvenient and disagreeable to handle. Fortunately, there is now available a very satisfactory substitute, or rather supplement, in the form of prepared commercial "humus," which has the water absorbing and breeding properties of manure and has the added advantage of being more concentrated and free from straw and more convenient to handle.

For stiff, heavy soils the very richness of manure is an advantage on such soils as these dead leaves and straw can be used in addition to buying "humus," however, care should be taken to select a good, well-prepared grade which has been so treated that you are not paying more for your money and express charges for water, and that it is a good medium for bacteria.

Sod growing on the ground in the new garden is to be made to furnish humus after it decays. It will be weeks and even months particularly if the season is dry before it is of much use. In small beds and borders, especially where flower seeds are to be planted, it

(Continued on page 92)



Wing's Flower Seeds

Are of Highest Quality

Bloom from Early Spring to Frost

We can supply you with all your old favorites as well as many new and rare specialties.

Trial Offer

10 SPECIAL PACKETS MAILED POSTPAID FOR 10¢

The following collection is easily grown. Aster, Cosmos, Gaillardia, Larkspur, Marigold, Pansy, Petunia, Pinks, Poppy and Zinnia.

Write for New Catalog

We have just issued a very attractive seed guide. Completely illustrated. Describes every variety of vegetable, old and new, as well as 125 varieties of Gladioli, 150 Dahlias, 165 Iris, 150 Peonies, the world's finest Sweet Peas and everything that makes a garden beautiful. Be sure and write for your free copy today.

The Wing Seed Co., Box 1027, Mechanicsburg, Ohio





A Greenhouse Makes Your Home Complete

There's health and pleasure in a greenhouse and it adds a touch of beauty to any home. You can have flowers and fresh vegetables all winter. Whether you own or rent you can afford a Callahan

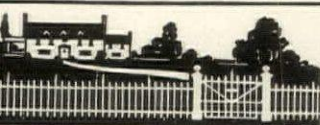
Duo-Glazed Greenhouse

Ready built in sections, easily put up or taken down. The double wall of glass forms a non-conductive air chamber that keeps the greenhouse warm at low cost. Many sizes and prices—some as low as \$108. Catalog on request.

CALLAHAN DUO-GLAZED SASH CO.
1427 Wyandot St., Dayton, Ohio

Largest and Best Berries

Blackberry, St. Regis Raspberry, Van Hybrid Strawberries, Ideal and Grapes, Everybody's Currant, Van Gooseberry. My Catalog No. 1, an illustrated book of 64 pages tells all about them and describes also all "the old varieties" of small fruits. It contains instructions for planting and cultivation and tells about the Best Lovett Rose I am giving away. In it are also a full line of superior Roses, Trees, Ornamental Trees, Shrubs, Vines, the best Nut Trees, Hedge Plants and Garden Roots. Send for it—it is free. Quality unsurpassed—prices low. 39th year—200 acres.
LOVETT Box 152 Little Silver, N. J.



IRON and WIRE FENCES

WE make indestructible iron and wire fences and gates for every place and purpose. Put your fence problem up to us. One of our fence experts will give it a personal attention, and suggest the logical solution. Send for catalog.

American Fence Construction Co.

Church Street New York City

DO YOU LOVE FLOWERS?

FREE my select 1917 Flower List. Send a dime and addresses of 3 flower growers and I will include art study of NASTURTIUMS IN NATURAL COLORS for framing, a Surprise Packet of kinds of choice flower seeds mixed, and upon good for 10c on a 50c order. My methods eliminate high-cost prices. Try me.
ESS EMMA V. WHITE, Seedswoman
Rich Ave. So. Minneapolis, Minn.

l's Evergreens Grow

Beautiful your home. Plant Hill's Evergreens. We are evergreen specialists, not only in growing but in planning artistic effects. Prices lowest—quality considered. Don't risk failure—Get Hill's Free Evergreen Book. Write today. Expert advice free! D. Hill Nursery Co., Evergreen Specialists, Box 3014 Dundee, Ill.

Seeds with a Lineage"

for catalog "Garden and Lawn."

Carters Tested Seeds, Inc.
27 Chamber of Commerce Bldg.
Boston, Mass.

CARTERS TESTED SEEDS



Insite Asbestos Shingles

Fire-Proof and Everlasting

A "transformable" light that harmonizes with any decorative scheme

WHEN you change your draperies and wall coverings this Spring plan to have your lighting in perfect harmony with the furnishings.

This is now possible for the first time through the medium of the artistic

HOLOPHANE Decolite

"The Light of Your Personality"

By inserting fabric of suitable design and color between the two glass "bowls" you produce a light of surprising beauty that is in absolute unison with the decorative scheme. If you prefer, you may insert the identical material used in your hangings, table throws, etc.

The Decolite provides a light of unequalled quality for reading and sewing. Ample volume without glare. All eyestrain eliminated.

The Decolite is a part of the scientific

HOLOPHANE
LITERARY ILLUSTRATION

by means of which every room in the house can be lighted better—at an actual saving of current.

If your dealer cannot supply you write for our Free Book-let illustrating the Decolite in colors, and showing harmonious color schemes.

Holophane Glass Co., Inc.
340 Madison Av.
Dept. C7
New York City

Make the Neighbors Proud of Your Place!

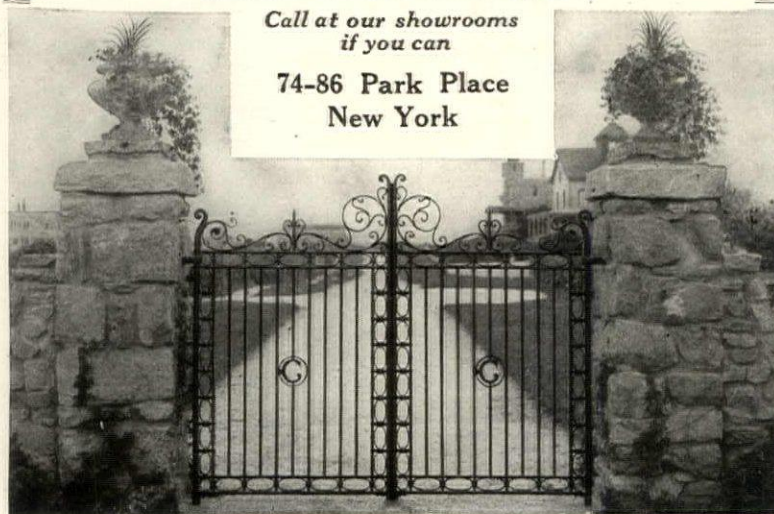
HANDSOME gates, ornamental railing, lamp standards, lamps, grill work, fountains, lawn vases, tennis court enclosures, etc., of Fiske pattern and selected to harmonize with surroundings invariably demonstrate the good taste of their owners and add to property values.

We've an endless variety to select from, will execute special designs and, if desired, will erect complete. Do yourself and us the justice of investigating the beautiful improvements we are in a position to suggest. Tell us your requirements.

J. W. FISKE IRON WORKS

Call at our showrooms if you can

74-86 Park Place
New York



The World's BEST ROSES

DIRECT TO YOU
PORTLAND OREGON ROSES

are world-renowned for their unsurpassed beauty and sturdiness. From bud to fullest bloom they retain their charm of color and form. Oregon conditions for growing sturdy and beautiful roses are the best in the world, and such as to adapt the plants to any locality and climate. For the purpose of

INTRODUCING

our various choice specimens throughout the United States, we offer the following special selection of

ONE DOZEN

Sturdy, 2-Year Old FIELD-GROWN PLANTS

Express Prepaid, \$4.85

2 Best White, 2 Best Pink, 2 Best Yellow, 2 Best Red, 2 Best Copper, 2 Choice Climbers.

Mountain-View Floral Co.

EXPERT ROSE GROWERS

Portland, Oregon

Morris Nurseries

Our catalog contains a wonderful list of trees, plants and flowers for Spring planting. Everything for lawn, garden, or orchard, and all of hardy, highest grade stock. Send for the Morris Nursery Catalog NOW. Pick out the stock you want and get it planted early. We are extremely careful to send out fruit trees true-to-name. Spring is near. Send for your Free Catalog today.
MORRIS NURSERY CO.
Box 801, West Chester, Pa.

SUN ROOM AND GARDEN SPECIALTIES IN FAIENCE

Fountains
Pottery, Tiles, Etc.

THE ROOKWOOD POTTERY CO.
CINCINNATI, O.

Russian Antique Shop

ONE EAST TWENTY-EIGHTH STREET

WORKS OF ART IN METALS

Unique and useful things of Brass, Copper, and Bronze wrought and beaten into artistic designs by the hands of Russian peasants.

EXHIBIT OPEN TO THE PUBLIC.

DWARF TREES

DWARF TREES are best for the home garden; they need less room, BEAR QUICKER, and produce finest fruit. You can grow them as bushes, pyramids, cordons or espalier forms as described in our FREE CATALOGUE.

APPLE
PEAR
PLUM
CHERRY
PEACH

THE VAN DUSEN NURSERIES, C. C. McKay, Mgr., Box B, Geneva, N. Y.



Grow your own Vegetables

Continued rise in food-costs makes a garden of your own more desirable than ever.

You can make it pay big crop-dividends by using Planet Jr Garden Implements. They do the work of three to six men, or enable you to cultivate four times the acreage possible with ordinary implements, because they are especially designed to save time and labor and are scientifically constructed of the finest materials to give lifetime service. Used for over 45 years and by over two million farmers and gardeners with greatest success. Fully guaranteed.

Planet Jr Garden Implements

No. 25 Planet Jr Combined Hill and Drill Seeder, Double and Single Wheel-Hoe, Cultivator and Plow will work two acres of ground a day. It is a great tool for the family garden, onion grower, or large-scale gardener. Is a perfect seeder and combined double and single wheel-hoe. Unbreakable steel frame.

No. 17 Planet Jr is the highest type of single-wheel hoe made. Its light, durable, ingenious construction enables a man, woman, or boy to do the cultivation in a garden in the easiest, quickest and best way.

Use these tools and cut down living costs. We make 32 styles of seed drills and wheel-hoes—various prices.

New 72-page Catalog, Free!

Illustrates Planet Jrs doing actual farm and garden work, and describes over 70 different tools, including Seeders, Wheel-Hoes, Horse-Hoes, Harrows, Orchard, Beet, and Pivot-Wheel Riding Cultivators. Write postal for it today!

S. L. ALLEN & CO.

Box 1110 K, Philadelphia

Making the New Garden

(Continued from page 90)

often pay to "skin off" the surface before breaking up the ground, as a thick sod will make it very difficult, if not impossible, to get the soil in as fine a shape as is desired. This sod can be used in the compost heap, for drainage material, and in many other ways. In the case of trees and shrubs, it should be turned upside down and placed about them after planting, thus making an efficient mulch to retain the moisture.

THE BACTERIA CROP

There are several ways of thoroughly inoculating the soil of your new garden so that there will be plenty of opportunity for bacteriological action, even the first season. A good dressing of well-rotted manure will do to try, so far as the ordinary soil bacteria are concerned. If you have only a little manure, it is best to spread this evenly over the whole surface rather than to put it all on one spot. It may be supplemented by fertilizers and humus. The best grade of humus carries soil bacteria in large numbers if it has been kept in the right condition, and not

allowed to get dust dry when stored it, or even later on while being applied.

In addition to this general distribution of bacteria on new ground will pay decidedly to use an inoculant to make sure of fixing the bacteria in the soil. This can be done through the use of the different legumes.

The conservation of moisture can be accomplished to a large degree through the thorough pulverizing of the soil and the supplying of humus, of which we have a great deal spoken. In addition to this, a mulch should be provided as soon as the ground is worked in the spring and maintained throughout the growing season, keeping in mind that it is even more important for the new garden than for the old one. With new soils, however, where all the precautions have been taken to check the evaporation, the irrigation will be needed. Moreover, overhead irrigation, where a supply of water is already available, is inexpensive for the home grower and the benefits are so great that there is no reason for attempting to get along without it.

The Noble Dane

(Continued from page 38)

describes the Great Dane as a dog "not so heavy or massive as the mastiff, nor yet approaching too nearly the greyhound type. Remarkable in size and very muscular, strongly though elegantly built; the head and neck should be carried high, and the tail in line with the back or curved slightly upwards, but not curled over the hindquarters. Elegance of outline and grace of form are most essential to a Dane: size is absolutely necessary; but there must also be that alertness of expression and briskness of movement without which the Dane character is lost. He should have a look of dash and daring, of being able to go anywhere and do anything."

SIZE AND WEIGHT

A typical Great Dane then must be a large, powerful dog—30" tall at the shoulder and a hundred and twenty pounds in weight are the minimum standard requirements for a male, while a female must not be less than 2" shorter or twenty pounds lighter. Size, says the Standard, is "absolutely necessary": symmetry and grace are "most essential." It is not a difficult thing to produce an exceptionally tall and heavy dog, but he will probably be a coarse, clumsy brute, nor is it hard to secure grace, if one will overlook light bone and shelly body; but to combine size and strength with symmetry and elegant grace is imposing on breeders a most exacting ideal. This difficult combination, however, has been the salvation of the Great Dane. It gives him a special physical recommendation.

Mentally also, the noble Dane has his own good points. He is never a dog of snappish, yapping temperament. If closely confined or roughly handled he may develop an ugly strain that makes him positively dangerous, but this only happens when he is mistreated. Treated as a faithful retainer and honorable friend, he is kind, obedient, and affectionate. He is not a bully or a brawler delighting to pick on other dogs. He does not fawn on visitors, but he is not, on the other hand, a morose, uncompanionable animal.

It is to the German breeders we are indebted for this splendid dog. They have taken the heavy, ferocious boar hunting dog of the Middle Ages and by painstaking selection and intelligent handling have made of the dog we know.

WHERE THE DANE CAME FROM

The Dane's origin is lost in antiquity. Great heavy dogs of a somewhat similar though coarser type depicted hunting lions and wild beasts on Assyrian bas-reliefs, and Greeks and Romans both had dogs of this same stamp. Throughout the Middle Ages powerful dogs were used for boar and stag hunting throughout Europe. Written descriptions, paintings, and sculpture show that there were many different variations in size and shape in different countries, and it is quite impossible to trace with any degree of certainty the ancestry of the breed. In a general way we know that the Dane is a descendant of these great hunting dogs, but beyond 1880 the pedigree cannot be written.

About thirty-five years ago lovers in the south of Germany, especially in and about the ancient city of Ulm and Stuttgart, became interested in remnants of the old race of boar hounds. Whether their stock was native or imported we do not know, but we do know that they began breeding enthusiastically the object of refining the type of medieval sporting dogs. They were what Mr. Frederick Becker has aptly called the "ennoblement" of the Dane, and the fame of their "Ulm Doggen" spread rapidly all over Europe and early reached England. The Great Danes of today go directly to the dogs of these Vötenburg breeders.

It was the naturalist Buffon who mis-named the breed Great Dane a century before he had described the old boar hounds of northern Europe under the name of "Grand Danes." The breed was not native to Denmark, nor, so far as we know, had the country contributed any noteworthy part in their development, but it

(Continued on page 94)



"CREO-DIPT" STAINED SHINGLES

17 Grades 16, 18, 24 inch 30 Colors

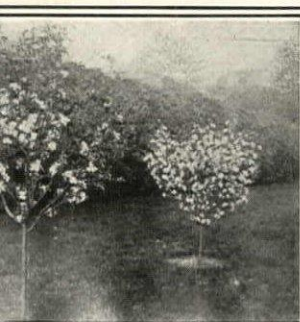
Save repair and repainting expense. Give unusual beauty. Cost less than staining on the job. Only selected cedar shingles—no waste, preserved in Creosote, stained any color by our process.

Write for book of "Creo-Dipt" homes and sample colors on wood. Name of architect and lumber dealer appreciated.

STANDARD STAINED SHINGLE CO.

1012 Oliver St., No. Tonawanda, N. Y.
Factory in Chicago for West.

Home of Architect A. Russell Robinson Emsworth, Pittsburgh, Pa.
24" "Dixie White" on sides; Moss-Green roof—more artistic than wide clap-boards.



STRONG, HEALTHY TREES and PLANTS

Stock for Spring 1917 is full, vigorous, well grown of a quality. Have a full line of fruit trees, plants and vines, ornamentals, roses and large plants. Send us your list of wants. We will quote you active prices for first quality plants. No better can be grown. We do Landscape Gardening and Tree Surgery in all branches. Write for our catalogue today. It's free for the asking.

T. J. DWYER & CO.
Orange County Nurseries
17, Cornwall, New York

Beautiful Your Home

Flooring is an important consideration when remodeling or building. Hardwood floors meet every demand. They add the beauty and desire and they give everlasting wear.

Instruction Book FREE
Our big, beautiful book illustrates and explains how to best select and shows the proper treatment in laying and caring for hardwood floors. Write today for your copy. You will need its valuable information. Address
THE INTERIOR HARDWOOD CO.
1343 Beecher St.
Indianapolis, Indiana

IRON METAL COLUMNS

"The Ones That Last a Lifetime"
For Porches, Pergolas, Interiors.
Ask for Booklet No. 56
The Union Metal Mfg. Co.
Canton, Ohio

TREES and SHRUBS

IMPORTER'S HIGH QUALITY STOCK
Lowest Price List free. Write for copy to-day.
WATER'S NURSERIES
Evanston, Ill.

USE WIZARD BRAND MANURE

It Supplies Food For Your Land and Plants
Wizard Brand Manure makes things grow. It's just what your lawn, flowers, vegetables, fruit and field crops need. Every piece of land needs replenishing from time to time. Wizard Brand Manure is more than just fertilizer—it strengthens soil fertility and supplies plant food the same time. Call for Wizard Brand Manure by name today or write us for descriptive booklet.
THE PULVERIZED MANURE CO.
Dept. 25, Union Stock Yards, Chicago

FREE—Write today for our new catalogue entitled The World's Best Dahlias



Accurately describing all the best new and standard varieties in Cactus, Decorative, Giant Flowering, Show, Fancy, Pompon, Peony, Duplex, Collarette, Anemone, Century and Single. Natural color reproductions of New Decoratives, "Dr. Tyrrell" and "Minnie Burtle" and 38 beautiful half-tone illustrations of the distinct types. The leading Dahlia catalogue with the 1917 novelties.

Book, "The Dahlia," 5th and revised edition, 50c.

PEACOCK DAHLIA FARMS
Berlin, New Jersey



Dreer's Vegetable Seeds

have 79 years of experience back of them, and in no other business is expert knowledge so necessary. You can materially reduce the high cost of living by having a garden and grow your own vegetables.

Dreer's Lawn Grass Seeds

are blended from the highest grade seeds of strong vitality. Let us send you our booklet on Lawn Making—free.

Dreer's Garden Book for 1917

is declared by a legion of enthusiastic gardeners to be the most complete and valuable reference, both on growing vegetables and flowers, ever issued. Colored and duotone plates—over a thousand illustrations. Lists everything worth growing, both novelties and standard varieties.

A copy sent free if you mention this publication.

Dreer's All Heart Lettuce

is the most dependable hard-heading lettuce ever introduced. Magnificent large yellowish green heads with extremely solid heart. Flavor rich and buttery. Slow to run to seed even in hot weather. Packet—10 cents.

HENRY A. DREER
714-16 Chestnut St., Phila.



A Work Saving Result Insuring Sprinkling System for your Garden

DON'T let all the painstaking work that you're going to put into that garden of yours this spring; all the seeding, hoeing and back-aching—go for naught. Protect it against the dry weather days that come along and shrivel up your flowers and vegetables.

A Skinner System Sprinkling Line is your sure insurance against such a happening.

No trouble. No bother. Just turn on the water and it does the rest. Thoroughly and uniformly waters your garden with a fine, mist-like spray. Does not pack the soil nor injure the finest foliage. Easy to put up, take down or change location. A few minutes' attention waters your garden.

Fifty-foot line, fully equipped, costs \$13.75. Waters 2500 square feet. For other lines, add 25 cents a foot extra.

For \$14 we can equip lines with an Automatic Turning Device, which will move the spray from one side to the other, and then itself shut off the water. Time of watering under full control.

Send for full information about this Skinner Sprinkling System.

Skinner System of Irrigation
231 Water Street Troy, Ohio

**SKINNER
SYSTEM**
OF IRRIGATION.

YOU Should Plant

KING'S HARDY Old Fashioned FLOWERS
Larkspur, Foxgloves, Hollyhocks, Phlox, Columbines, Poppies, etc.

Because they represent a wonderful variety. Because they increase in size and beauty each succeeding year, and with the proper selection you can have a handsome garden with an ever changing color from May to December.

New catalog just out, lists more than 200 varieties, beautifully illustrated, tells you HOW TO GET MORE PLEASURE OUT OF YOUR GARDEN.

Send for catalog and special offer.
W. E. KING, Specialist in Hardy Old-Fashioned Plants
Box 327 Little Silver, N. J.

TREES at Half Agents Prices

Baldwin Apple, 6 to 7 ft., @ \$9.00 per 100.
Bartlett Pear, 6 to 7 ft., @ \$11.00 per 100.
Elberta Peach, 5 to 7 ft., @ \$9.00 per 100.
ROSES, SHRUBS and ORNAMENTALS at lowest prices. Free Catalog, Complete Line.
THE WM. J. REILLY NURSERIES, 49 Ossian St., Danville, N.Y.

Guaranteed by Certified Grower—

Beautify and make productive your idle land by planting

EVERGREENS

1000 THREE YEAR OLD TREES FOR \$6.00
Catalogue and Booklet on request
THE NORTH-EASTERN FORESTRY CO.
CHESHIRE, CONN.

Beautify Your Home Outside

Plant beautiful, ornamental trees and shrubs to add a picturesque touch; plant for fruiting, Green's true-to-name fruit trees, etc., all of which you can buy from us at

Half Agent's Prices

We sell direct to you. There is no Nursery Agent to pay. Green's stock is backed by forty years of successful growing and direct selling. Send for our Catalog. Contains valuable information and money-saving combination offers.

GREEN'S NURSERY COMPANY
Box 10
Rochester New York



SEND FOR IT TODAY



You Really
Need This

FREE SEED ANNUAL

It's helpful as well as handy and handsome. Hundreds of instructive pages—splendidly illustrated. You certainly will be glad you sent for it. Best Annual we've ever issued—FREE.

SPECIALS

Golden Dawn Sweet Corn

Medium early variety—unsurpassed for sweetness and flavor. Stalks 5 to 5½ feet high—ears of good size and usually well filled to extreme end. (Another popular sweet corn is Granite State—for which we have had many calls.)

Lawn Seed

Franklin Park Lawn Seed—made from re-cleaned seeds—formula of Park Commissioners of Boston. Starts at once if ground is in proper shape. Free from weeds, contains no chaff.

Paris Golden Celery

Self-blanching—extremely early variety—compact, straight, vigorous, rich golden-yellow stocks. Seed carefully tested for purity.

Asters

We offer you only the choicest varieties and most select strains. You'll really be interested in reading about them in our instructive Annual.

For Free Delivery System
See Our Catalogue

**FOTTLER,
FISKE,
RAWSON CO.**

Faneuil Hall Square
BOSTON, MASS.

The Noble Dane

(Continued from page 92)

pened that the best specimens the Frenchman had seen had been imported from that country. There is, moreover, no particular reason for supposing that there was any great infusion of Danish blood in the Ulmer Doggen. Undoubtedly German boar-hound, which was suggested at one time, or even the German Deutsche Doggen, would be more appropriate names for the breed; but Great Dane they have long been and Great Dane they will probably always be to us.

Germany has always been the main source of Great Dane supply, and Americans have enjoyed even greater opportunities than British fanciers for adopting the breed. Not only has the English cropping law hurt the Dane's popularity, but the strict quarantine laws have made importing difficult. Moreover, Americans of German descent have always rallied

around this splendid dog from the Fatherland, so that there are more and finer specimens in the United States today than anywhere outside of Germany, Holland, and Austria.

—"JIM"—HERO—

It is very fitting that probably the most famous dog hero in America, a dog that has received two medals and a silver bowl for life saving, should be a noble Dane. Dr. Galpin's Jim has been, moreover, the guest of honor at the Canadian Club's banquet and had tea given him by a society leader and a well known authoress; but all his honors rest lightly on him. He is still the quiet, brave dog he always was, utterly devoted to his beloved master. Though he is no champion of the bench shows' making, still I always think of Jim as the best expression of the ideal which typifies his noble breed.

Filling the Salad Bowl

(Continued from page 27)

days after sowing the seed. In other words, if you sow on April 10th you are bound to get your first heads of Iceberg on June 15th. And it does not matter if July turns out to be rather hot—Iceberg will stand more heat than any other sort. For that reason, I make repeated sowings of it all through May, which keeps us supplied with salads throughout August. In July, Naumburger is sown again, and from that sowing we gather heads till frost nips the last ones in the autumn.

But to come back to the crisphead Iceberg. A little while ago I mentioned its tasteless character. This brings me to a point which I have never seen discussed in any article on salads: upon the proper treatment of the lettuces grown by the gardener in the sweat of his brow depends the success of the dish from the standpoint of the housewife.

After considerable experimenting I came to the conclusion that all lettuces might be divided into two classes, according to their flavor. And strange to say, I found that those produced very early and very late in the season require one sort of dressing, while the mid-season and out-of-season product requires another. The extra early, loose-leaf sorts, of which Black-seeded Simpson proved my choice, and Iceberg, of crisphead fame, I found decidedly lacking in certain flavors most acceptable to our palates. On the other hand, the very mild butterhead Naumburger had, by its very nature, enough of that quality which was lacking in the others—the buttery, oily substance of which the crisphead sorts of lettuce are entirely devoid.

At any rate, I grouped loose-leaf and crisphead lettuces as one class, and the butterheads as the other, giving cos lettuce, or Romaine, the benefit of the doubt as to just which dressing is most acceptable to different individuals.

OTHER SALAD PLANTS

Before passing on to the subject of salad dressings, let me say a few words about salad plants other than lettuce. To begin with, there are cresses, mustards, corn salad, endive and chicory. Of all these, endive deserves the most attention, since it is as easily grown and as dependable as lettuce. For best flavor, it should

never be served alone. Mixed with butterhead lettuce and served with French dressing, it is delicious. Served alone, it requires the same treatment as the crispheads in order to prove acceptable.

To appreciate cresses, a taste must be cultivated for "pungent" salads. Mustard belongs in the same class and is hardly suitable to be served except in connection with milder salads, in which case it should be used sparingly as a flavoring.

Corn salads are rather tasteless, and chicory requires a long season in which to yield its product. Witlof chicory is the product of roots grown during the summer and forced in hotbeds or cellars to yield delicate sprouts during the winter.

DRESSINGS FOR SALADS OF DIFFERENT FLAVORS

The crisphead lettuces together with the extra early loose-leaf sorts require what I call a "bacon fat dressing." Here is the recipe for a dish designed to please a family of five: Take two well-grown heads or plants, remove the outside leaves and keep on ice to preserve crispness. Cut ¼ lb. fat bacon in small cubes and fry gently until the oil turns a light brown color. Mix two tablespoonfuls of sugar with ½ teaspoonful of salt, and ¼ teaspoonful of pepper with 3 tablespoonfuls of vinegar and 1½ tablespoonfuls of water. Mix all this with the bacon fat, put on the stove again and heat until it reaches the boiling point. Then pour over the lettuce, which should be cut in strips. Should the bits of bacon prove objectionable, strain the dressing. We find the savory crispness of the bacon an added improvement.

The butterhead lettuce Naumburger, on the other hand, requires a quite different treatment to be most appreciated. For all the lettuces of a distinctly fatty or buttery character, I prefer a French dressing composed as follows:

Mix ½ teaspoonful of salt with ¾ teaspoonful of pepper. Add 3 tablespoonfuls of best quality olive oil, and stir the whole thoroughly. Take four tablespoonfuls of vinegar and, if the piquant flavor of garlic proves attractive, rub part of a bulb on the inside of the mixing bowl. Stir all thoroughly and you will find the result makes any butterhead delicious.



1/4 Po

Spencer
Sweet Peas

25c Post

This mixture of giant orchid-flowering sweet peas contains the finest Spencer varieties in all shades from purest white to darkest crimson.

This is our 1917 special offer. We will send the quarter pound Sweet Peas postpaid to any place in the United States or Canada together with a copy of our

New Garden Guide

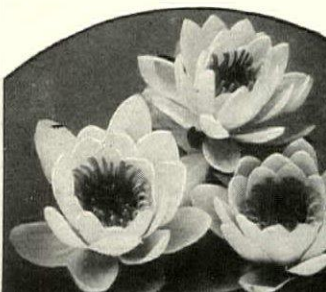
containing full cultural directions. This guide also describes and illustrates the best in flowers and vegetables, and gives many helpful suggestions for successful planting. March sowing insured success with Sweet Peas. Make your order today.

Arthur T.

Boddington Co., Inc.

Seedsman

Dept. H 3, 128 Chambers St., New York



Lotus and Lilies


The sacred flower of Egypt and the fragrant water lily of our own ponds, will grow in any garden as well as in their native homes.

Water Lilies and Water Plants

My new booklet, shows several blooms in natural colors, and tells how to grow these plants in tubs or pools. Send today for a copy.

William Tricker

Water-Lily Specialist
Box G, Arlington, N.J.



Hang Up a Dodson Wren House

These friendly little brown birds will soon be here looking for a home. Hang up my 4-room Wren Bungalow and a family will move right in and raise 2 or 3 broods.

I have studied bird habits and worked for bird protection for 22 years. My houses bring the birds because the birds like them. Entire collection depicted in catalog with prices. Includes bird baths, feeding devices, etc. are patented.

Book Free—My illustrated book tells how to attract birds to your garden. With send, free, my beautiful "Nature Neighbor" folder, together with a colored bird card worthy of framing. Write to (11)

JOSEPH H. DODSON
Director of the National Audubon Assn.
Harrison Ave., Kankakee, Ill.




Make Your Gardening Profitable and Easy

The BARKER Weeder, Mulcher and Cultivator

3 tools in 1, cuts the weeds under ground and works the surface crust into a moisture-retaining mulch—intensive cultivation. Only garden tool that successfully, in one operation, destroys weeds and forms the necessary soil mulch. "Weed Killer Ever Used." Has shovels for cultivation. Self-adjusting, easily operated. Write for free illustrated and special Factory-to-User offer.

MFG. CO., Dept. 19 **David City, Neb.**



Grow Pecans and other Nuts

to \$300 per acre profit growing Pecans, nuts, Hickory Nuts, English and Black Nuts. Makes lawn, roadside and other nuts. Fine for shade, too. All varieties for northern planting—pedigree and guaranteed true to name. Largest Pecan Nursery in America. Write for illustrated book. Reliable agents wanted.

McCoy Nut Nurseries
Old State Bank Bldg. **Evansville, Ind.**

Grafted Nut Trees

combine utility with ornamental planting. My Pennsylvania grown, hardy and varieties of nut trees. Catalogue and price guide free.

J. F. JONES, NUT TREE SPECIALIST
H. **Lancaster, Pa.**

es, Hardy Plants, Lilies and Japanese Garden Specialties

Send for our 1917-18 catalogue. Over 500 fine varieties of Irises.

rainbow Gardens **1970 Montreal Ave. ST. PAUL, MINN.**



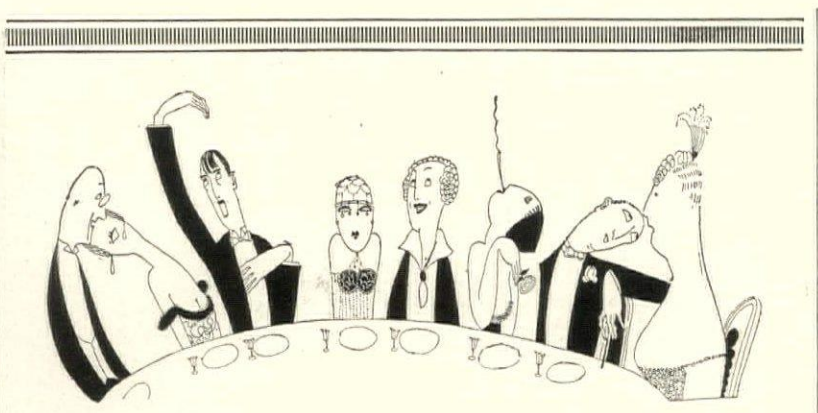
This Book On Home Beautifying Sent Free

Contains practical suggestions on how to make your home artistic, cheery and inviting. Explains how you can easily and economically keep the woodwork, piano and furniture in perfect condition.

Building?


book will tell you of newest, most attractive color combinations for interior decorating. It gives complete specifications for using inexpensive soft woods so they are as beautiful as expensive hard woods. We send you this book free and postpaid.

JOHNSON & SON, Dept. HG, Racine, Wis.
"The Wood Finishing Authorities"




Six Months of Vanity Fair will Enable you to Ignite a Dinner Party at Fifty Yards

DON'T be a Social Gloom. Don't be an intellectual Wet Blanket. Don't kill the dinner stone dead along about the chicken okra or the baked sea bass. Enjoy it all the way from the cocktails and caviar clear through to the coffee and Coronas. Make others enjoy it.



Vanity Fair will act as your passport to popularity. It will teach you how to write vers-libre on your shirt bosom; how to wear a tiara without hatpins; and how to tell a Newport dowager from a sea-lion. In short, it will keep you in touch with everything stimulating, novel and amusing in the brilliant kaleidoscope of American life.

Vanity Fair costs 25 cents a copy — \$3 a year. There is more joyous funmaking and mental stimulation in one single copy than in fourteen yards of Bergson or Ralph Waldo Emerson. Yet, if you do not know Vanity Fair, or would like to know it better, you may have six whole copies for an insignificant dollar bill.



Six Months of Vanity Fair for \$1

Stop where you are! Tear off that Coupon!

VANITY FAIR, 449 Fourth Avenue, New York City

I want to go through life with my mind open; to keep my sympathies warm; to keep in touch with the newest and liveliest influences of modern life. Therefore, I want you to send me the next six numbers of Vanity Fair. My favorite dollar is inclosed.

Name.....Street.....

City.....State.....H.&G. 3-17

Peterson Roses

NEED no blare of trumpets to proclaim their superiority. They're advertised by their friends beyond our ability to supply ere the season is over.

Is Your Order In?

Catalog on Application

Geo. H. Peterson
Rose and Peony Specialist
Box 30 Fair Lawn, N. J.

GILLETT'S

Hardy Ferns and Flowers For Dark, Shady Places

Plan NOW to get ready to plant your native ferns, plants and bulbs early in the spring. Early planting brings best results.

Send for descriptive catalog of over 80 pages. It's FREE.

EDWARD GILLETT
10 Main Street, Southwick, Mass.

TSUGA CAROLINIANA

from the high Carolina Mountains, the most beautiful Hemlock known.

Rhododendron carolinianum
the new, clear pink species.

Rare American Plants and Specimen Evergreens.

Rock, Water and Wild Gardens designed and executed.

HARLAN P. KELSEY, Landscape Architect,
SALEM, MASSACHUSETTS.
Owner: Highlands Nursery in North Carolina; Buxford Nursery in Massachusetts. Catalogs.



Danersk Decorative Furniture

Illustrated is a slat-back bed; English Walnut or decorated to order with quaint patterns. A comfortable upholstered chair of unusual design.

Charming Furniture for Bedrooms

Finished to your order in Antique Natural Wood Tones or lovely old Polychrome effects. Built in right scale to economize space. Why purchase crude designs duplicated by thousands when you can express your own individuality in DANERSK FURNITURE?

Write for our complete catalog "AS" or call at Exhibition Rooms

ERSKINE-DANFORTH CORPORATION
2 West 47th Street New York
First Door West of Fifth Avenue, 4th Floor



WHEN garage doors are locked open by the Stanley Garage Door Holder No. 1774, nothing can budge them.

The wind cannot slam them against your incoming or outgoing car. Yet a pull on the chain leaves them free to close.

STANLEY GARAGE HARDWARE

is especially designed to fulfill garage requirements. The ball bearing hinges carry heavy doors so that they swing easily, without sagging. Stanley Garage Hinges, with Stanley Garage Latches and Bolts, assure you handsomely equipped doors that will close snugly and weather-tight.

Whether your garage is simple or elaborate, and whatever its construction, there is just the right Stanley equipment for it. You can see the different designs at almost any hardware store.

Send for our booklet H-3 about Stanley Garage Hardware. It will interest you—write today.

THE STANLEY WORKS
New Britain, Conn., U.S.A.

New York, 100 Lafayette Street
Chicago, 73 East Lake Street



Reiber Bird Homes

The only Bird Houses that actually attract the Birds because they supply the natural nesting conditions.

The only Bird Houses that really protect and conserve bird life.

Scientifically constructed. The inner nesting chamber, entirely independent of the outer walls, maintains an even degree of temperature and moisture—an absolute necessity for successful hatching—whether the house is placed in the sun or shade.

Reiber Bird Homes, Feeding, Watering and Supply Stations are the result of the life-long study of E. H. Reiber, "The Bird Man," and are protected by U. S. Patent. Designing and executing of Bird Gardens a specialty.

We will gladly send you our book describing these exceptional Bird Homes.

Prices from \$1.50 to \$36.00

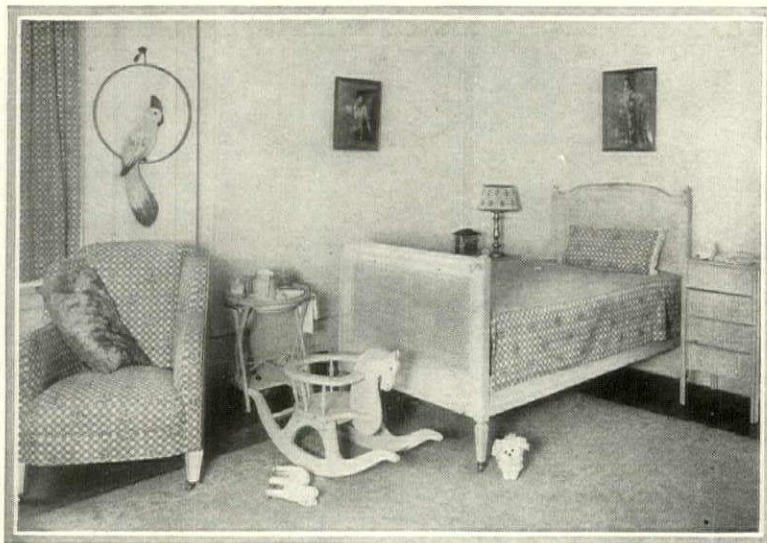
REIBER BIRD HOMES, West Webster, N. Y.



At the Family Table

For the complete, correct and perfect illumination of your home, specify S. & A. lighting fixtures.

For authoritative lighting information send to-day for free catalog to:
SHAPIRO & ARONSON
20 Warren St., New York City



Photographs by Johnston-Hewitt Studios
The nursery bedroom is nothing more than a grown-up's bedroom in miniature. The child should play and eat in one room and sleep in another

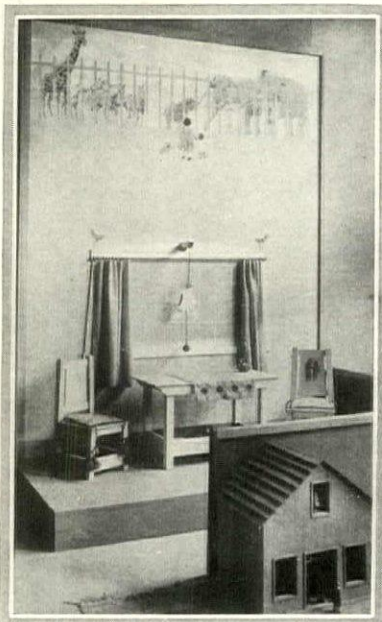
The Legends of the Modern Nursery

(Continued from page 35)

possible to get any effect with it, it wears such as it is bound to get. shows every speck of dirt, and it does. A low, wooden table for playing not last half as long as that which and one for eating are advisable. A

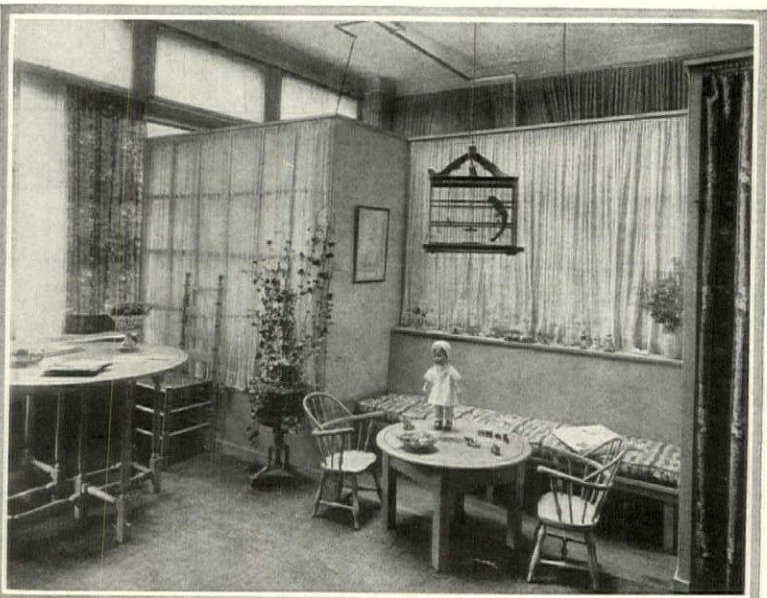
has a preserving coat of stain or enamel.

Low benches, drawers and plaything-boxes save the mother and nurse from constantly waiting on the child. The drawers should be made to pull out easily—not too heavy for little arms. A low, long bookcase for the smaller, breakable toys and a big box for the heavier ones are nursery assets. A light-weight box covered with matting is excellent for this purpose, as the cover is light and the box will stand much



A platform with a rail around makes a good supper and play corner

good cover for the eating table is blue and white small-checked oil-cloth cut in oblongs large enough to hold a plate and cup and saucer. The edges may be painted with a blue band. This is cheery and with blue and white striped china it makes a pretty nursery effect. Black and white oil-cloth used on an orange table is striking but rather ultra for an unspoiled child. White china with black designs might be used in conjunction with this for a wee boy's nursery.



The curtaining of the nursery, as shown here, should be of a washable fabric. Dotted Swiss and scrim are best, with cretonne or an English print for over-curtains



Perfect Health and Luxuriant Growth of Flowers and Ferns

—is certain in this artistic self-watering hanging basket which is covered with the Illinois Self-Watering System, accorded by experts to be conducive to perfect plant health. This system eliminates both the daily watering and precludes possibility of dripping muddy water. It is unnecessary to take down the basket to water the plants; simply fill the easily detached container once a week and the water is drawn to the soil through a sponge. Basket measures ten inches in diameter and is fitted with strong chains. Price prepaid.

Send for our interesting booklet showing self-watering plant stands, window boxes and hanging baskets.

SEE OUR EXHIBIT AT THE INTERNATIONAL FLOWER SHOW, GRAND CENTRAL PALACE, MARCH 15 TO 22.

MILLER & DOINC

62 York Street Brooklyn, N.Y.



Rose Sturdy and Strong Roots

DON'T be satisfied with one fleeting month of rose bloom joy.

Plant some of my sturdy American-budded all-summer bloomers, and able to go out into your rose garden for months and cut big generous bouquets for your table.

The superior quality of the stock which I am offering this year will soon be recognized by all rose lovers. It requires no coddling. Every plant can scoff at rigorous winters.

My rose catalog describes all the best varieties.

Gladioli

To your mid-summer garden should be added the delightful charm of the stately, yet graceful gladioli.

Its range of wondrous coloring is truly a revelation. It is happily adapted to cutting for home decoration.

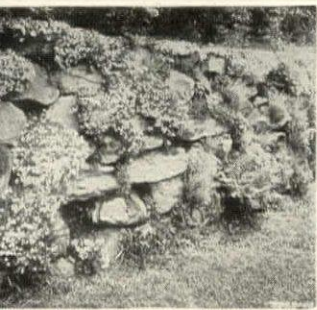
I am offering all the most favored varieties in full sized healthy American grown bulbs. Every bulb true to name and sure in bloom promise.

Send for my Rose and Gladioli Catalog.

As a tryout for quality-convinced, I will send a box of 25 choice selected bulbs, of named varieties anywhere in the U. S. for \$1.

A.B. Vanderbeck
Roses and Bulbs

176 Broadway, Paterson, N.J.

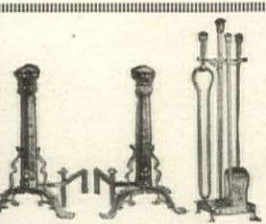


Wall Garden in Flower
the Rock, Wall, and
FASHIONED GARDEN

We specialize in Rock and
Wall Plants and Old-
fashioned hardy plants, we are
offering both at these attrac-
tive prices, in small and large
quantities — your or our
selection.

Twelve Plants . \$2.00
Twenty-five Plants 3.75 } Prepaid
Fifty Plants . . . 7.50
Catalog Sent on Request if 5c is enclosed
for postage.

ALISADES NURSERIES, Inc.
SPARKHILL NEW YORK
Hardy Perennials Our Specialty



Beautiful Andirons

Gas Logs Basket Grates
Screens Fenders
Fire Tools Coal Hods
Tampers Wood Holders

FOR CATALOG "D"—Free

WE PREPAY FREIGHT
from our unlimited assortment
of brand new, unsoiled, up-to-date,
best goods.

OUR BANK, DUN or BRADSTREET
MERLAND BROS. CO., Established 1883
4 So. 17th St., Omaha, Neb.

The Sundial

Piece of the Ancients

A pedestal of
Ancient Stone will
be the central point of
your garden and ro-
und to your gar-

An interesting
unique illustra-
tion of many de-
signs, pedestals,
vases, statu-
ettes, benches and
fountains mailed
on request. Your
request will be prompt-
ly answered.

ARKINS STUDIOS
Washington Avenue
New York



Beautiful Furniture
PROTECT FLOORS and
Floor Coverings from injury
by using
Glass Onward Sliding
Furniture Shoe
In place of Castors.
If your dealer will not sup-
ply you write us
ONWARD MFG. CO.
Menasha, Wis.
Kitchener, Ont.

CRITTALL
METAL CASEMENT WINDOWS
You appreciate modern economy, attrac-
tiveness, convenience and the advantage of
durable windows. CRITTALL Metal Case-
ment Windows should be specified in the plans
of your new home.
Write to Dept. G for complete information.
Casement Window Co., Detroit, Mich.



New York
Paris

Unique garden Furni-
ture from Old England
and France. Iron
Seats, Tables and Well
Tops. Marble Vases.

H. KOOPMAN & SON
16 East Forty-Sixth Street, New York, Opposite Ritz-
Carlton Hotel

Everything For The Greenhouse

John C. Moninger & Co.

Chicago
Cincinnati New York



Every Home Builder
should have book "Modern Dwellings." Price \$1.00
or with a number of blue prints, Price \$1.50. Both show
number of plans and exterior views of Colonial, Eng-
lish, ungalow and other types.
BARBER & RYNO, Architects, Knoxville, Tennessee

King Greenhouses

have an individuality and charm that is all their own
—combining grace, dignity and beauty of line with
that rare productiveness which makes the King an
ever greater pleasure to the owner.

Let us add another beautiful feature to your home
—no matter whether you are just building or occupy
the home your grandfather planned, a King can be
added to harmonize with its style of architecture—
just send for our illustrated catalog No. 52. Look
over the various houses and then let our experts
work with you to furnish just the King you want.

KING CONSTRUCTION COMPANY
355 King's Road North Tonawanda, N. Y.

All The Sunlight—All Day Houses

BRANCH OFFICES:
New York, 1476 Broadway Boston, 113 State Street
Scranton, 307 Irving Avenue
Philadelphia, Harrison Bldg., 15th & Market Streets



Make Your Home Grounds the Beauty Spot

in your neighborhood.
To do this, plant hardy
adapted trees, shrubs,
etc., that will give you
immediate effect. Our
new illustrated catalog
tells you about them
and gives you the result
of forty years' practical
experience. Write for
it today.

The Coe, Converse & Edwards Co.
Nursery and Landscape Men
Box A, Fort Atkinson, Wis.

OPEN OR CLOSE YOUR SHUTTERS FROM THE INSIDE

It is old-fashioned, inconvenient, dangerous
and unnecessary to lean out of the window to
open or close the shutters. If you install the
MALLORY SHUTTER WORKER

Operated from the inside

you can open, close or hold outside shutters in
any position from the inside without even rais-
ing the window.

The Mallory Shutter Worker is a simple and durable
device which pays big dividends in
convenience and comfort—a
child can operate.

Very easy to install in
any kind of a new or old
dwelling—costs a little
more than ordinary shut-
ter fixtures—pays for it-
self alone in saving wear
and tear to the shutters.
Drop us a postal card for
full information.

Mallory Mfg. Co.
255 Main St., Flemington, N.J.



Simply turn the handle
to adjust shutters—
automatically locked
in any position

GLASS CLOTH

A transparent waterproof fabric, guaran-
teed to generate about the same warmth and
light as glazed sash, or money back. For
all forcing purposes. Sample 3x6 feet. 50c
prepaid.

PLANT FORCERS

TURNER BROS., Bladen, Nebraska

EASTER SUNDAY FALLS ON APRIL 8th



Thousands of homes
have been cheered, the
weary days of thous-
ands of Invalids and
Shut-ins have been
brightened by watching
the wonderful budding
and blooming of our

Magic Lily of Valley

which flowers in 15-18
days from time of plant-
ing in our SPECIALLY
prepared MOSSFIBER.

Pure white, deliciously fragrant, the lovely
bells ring out a JOYOUS EASTER GREETING
to your friends.

We send POSTPAID, with fiber to plant and
directions how to grow successfully:

6 pips ... \$0.50 20 pips ... \$1.25
12 pips85 50 pips ... 3.00

Prices advanced, stock scarce since the war.
Our SPRING 1917 Gardenbook, full of GOOD
things is at your command. Send for it.

H. H. BERGER & CO., 70 Warren St., N. Y.

Garden Time Is Right Here!

Are You Ready?

First thing is to order your outfit of frost-proof plant growers—Sunlight Double-Glass Sash for cold frame, hotbed, or a small ready-made Sunlight Greenhouse. They double your profits! Immediate shipment.

Start Seed With Suntrapz

Midget seed starters and plant growers—work indoors or outdoors. Two of them to start the seed will set out both a cold frame and an ample kitchen garden. They will grow you weeks ahead.

Try a few Suntrapz. 50c each, (No Glass,) delivered anywhere east of Rocky Mountains.

Get our complete catalogue of Garden Outfits. Free.



Sunlight Double
Glass Sash Co.
for Hot-beds
and Cold-frames
944 E. Broadway
Louisville, Ky.

GORHAM GALLERIES

Sculpture by American
Artists

THE GORHAM COMPANY
Fifth Avenue at Thirty-Sixth Street
New York City



City Water Service in the Country

ANY one having an available source of supply—from well, spring or lake—can have a water supply system offering to the suburbanite all of the opportunities and advantages which the city family now enjoys. From the big line of

Eureka

Water Supply Systems

may be selected an outfit which may be operated by electricity, gasoline engine, kerosene engine, water pressure or by hand, to supply an adequate volume of water, and at the desired pressure, to meet all requirements.

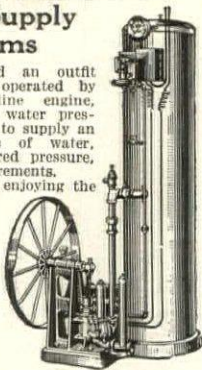
If you are not enjoying the many advantages of a good water supply system fill in and mail to us the coupon below, for catalog, and suggestions as to the proper kind of system to meet your needs.

The Bishop-Babcock-Becker Co.
Manufacturers—General Offices, CLEVELAND, O.
Branches in Larger Cities

Fill In, Detach and Mail This Coupon, Now!
The B. B. B. Co., Cleveland—Please mail complete catalog of "Eureka" Water Pumps and Systems. I am interested in a () pump, () system to be operated by (check which).

() Electricity, () Gas Engine, () Water Pressure, () Hand Power.
Our daily water consumption is aboutgallons.

Name
AddressH&G-3'17



The Legends of the Modern Nursery

(Continued from page 96)

A doll's house, perhaps 5' high, with a little door and two rooms could easily be built in the nursery corner, and would prove a delight to the children. A tiny door bell or a knocker, two suitable chairs and table in one room and a doll's bed in the other. The windows should be large and without glass, to insure plenty of ventilation.

The floor of a nursery should have rugs large enough not to slip around and small enough to be easily cleaned. The floor should be smoothly finished to avoid splinters, and a wide border constantly cleaned should be left on all sides. A speckled or small patterned rug is best. It does not show spots. The paint should all be finished in gloss enamel, not to show finger marks. Oak should be avoided in furnishing a nursery, as it is too stolid, heavy-grained a wood for childhood use.

Little low seats or hassocks are a good nursery accessory, as children like to sit on the floor, which is apt to be draughty and dusty. A low platform 18" wide and 3" high built around the bay-window for the children to sit on, supplements the chairs.

Old-fashioned wire plant-stands are suitable for the nursery as children love to tend plants. The fact that a potato will sprout and a carrot grow delicate leaves is of the utmost surprising interest. Begonias and geraniums that will blossom in winter, if carefully tended, will be much better in the nursery than a fern which must be avoided like a lace

sofa cushion for fear of blighting one of the fronds. The sturdy, easily tended plants are best. The flower pots may be painted and decorated by the children themselves.

The bath and bedroom connecting with the playroom should be furnished in miniature. The beds, bureaux, wash-stands and tubs should be low and small. There are so many bathroom accessories for children that the greatest effort should be made in planning a house to have one bathroom fitted exclusively for children. While the children will eventually outgrow it, it is not a matter of great expense to change the children's fittings for larger sizes.

A NURSERY IN GREEN

A nursery that was a great joy to the child as well as to the decorator had a soft tone, green wool rug. The walls were painted white with a border of spring fairies in delicate greens. The room is a sunny nursery in the country. The furniture was painted light green with stripes a shade darker. It consisted of a day bed, a chiffonier, two long padded benches to match the day bed, shelves and a plaything box. For supper, were two green wicker chairs and a little low iron table painted green on which was used green and yellow floral china. The curtains and bed-cover were of dotted Swiss with a ruffle edge with rickrack braid in green. The room was as fresh as Spring, a lovely domain for the tiny, black-haired lady who presided there.

Continental Color for American Homes

(Continued from page 32)

around the windows and doors and along the second story string course. Or it may be elaborated at certain spots where the shape of the wall space lends itself to a larger decoration. The simpler forms will be very inexpensive and any painter can carry them out; the cost of the more elaborate, of course, will depend upon the artist and the designs selected.

In planning for such murals, it might be well first to study photographs of the peasant cottages of Bavaria and Switzerland, and to note the character of the decorations. In

those countries whole villages are decorated. Here in America this is scarcely possible. Naturally we conclude that exterior frescoes are as yet not suitable for the town house, save it be in some corner of Bohemia where colors run rampant. On the other hand, exterior murals are perfectly suitable for the small country house that has either English cottage architecture or Continental peasant. If the house is well surrounded by trees and shrubbery the pictures will have an environment that shows them to their best advantage.

Carnations and the Open Border

(Continued from page 56)

only protection given is the cold-frame or pit, and I have frequently found the plants frozen like bricks without ill effects.

The soil for planting out need not be of any special nature although if it is loamy so much the better. If light or very sandy, a heavy dressing of manure, preferably cow manure, will give better results. Road sweepings from clean country gravel roads or cinder ashes, are good to lighten a heavy soil. To check the troublesome wire-worm, and at the same time improve the soil, a heavy dressing of equal portions of lime and soot is advisable. This is best applied in the spring and worked in when the ground is dug a second time.

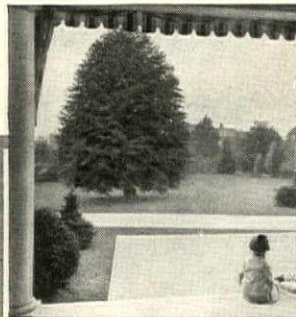
PERPETUAL CARNATION BEDS

In planting a bed of perpetual carnations a few simple details must be considered. The plants, which are at least ten months old, are best planted not less than 1' apart, so that in summer the indispensable Dutch

hoe may be used at intervals of three weeks to keep the soil loose and thereby encourage root action. When planted they should be staked and tied in the usual way.

Charming beds may be made of perpetuals by using for the center old plants which were in bloom the previous autumn and winter; others from 5" pots may then be planted around them. The old plants being tall and the younger ones short, a bed of good shape is thus formed, the shorter plants being in front and covering up the somewhat leggy nature of the old ones.

Perpetual carnation growing outdoors offers some pitfalls. I have seen failures through the use of young plants from 3" pots struck early in the year of planting. To use such plants is to demand too much from them, and, tempting as they sometimes appear when cheaply offered, for the purpose they are dear at any price. Such plants are useful only for blooming in the fall or winter under glass.



Have You A Outlook Like This?

No matter how pretentious or small your grounds may be, Big Trees will make them more beautiful at small cost. Thousands

Hicks' Big Trees

of all sizes are awaiting the beautify your property and increase its value. Each tree is dug with a large ball of earth around the roots, then canvas wrapped and shipped on a wood platform. We ship fully 1000 miles.

Send for catalog of trees, flowering shrubs, roses and hardy flowers.

Hicks Trees are guaranteed to

Hicks' Nurseries

Westbury, L. I.

Box Q
Phone 68



Price
range
from
\$6.75
to \$9.00

Are You Ready for Sp

IF NOT, send for our illustrated folder and price list of Garden Work baskets, kneeling racks, hand painted bird, flower

Whip-O-Will-O Furniture

352 Adams Ave.

Scranton

Smoky Fireplaces Made to Draw

No payment
unless success

Also expert
on general ch
work.

FREDERIC N. W
Engineer and Co
219 Fulton St., Brook



Every genuine Vudor Porch Shade has this name plate. Look for it. It is your protection against inferior imitations.

Lawn Needs Rolling



Before Rolling
heaves the sod
it full of
in which roots
ry out and die.



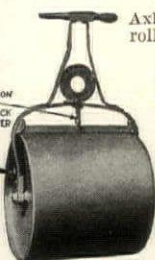
After Rolling
Rolling settles the
sod back and packs
moist earth around
the roots giving them
a quick start.

DUNHAM WATER WEIGHT ROLLER

Trade Mark

Steel drum can be filled with water
any weight to suit soft lawns, firm
or tennis court. When empty the
is light and easy to handle.

Lock holds the handle upright
not in use and the scraper cleans
lawn and dirt.



Axle is fitted with
roller bearings.

See the roller at
your dealer's and
ask him for FREE
LAWN BOOK.

The Dunham Co.
202 First Ave.
Berea, Ohio

New York Office
and Warehouse,
270 West St.

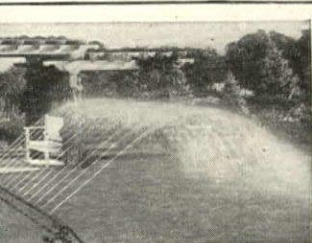
The Garden Gateway

1 East 48th St., New York

Everything for your Garden

Contains. Bird baths. Sun
s. Lead figures. French
garden furniture. Smocks,
practical tools.

New York Agents for the
North Shore Ferneries Co.
of Beverly, Mass.



Campbell Oscillating Sprinkler

The water motor in the end
makes it oscillate from one side
the other every 3 seconds,
evenly distributing a fine rain-
shower.

may be adjusted in 2 seconds to
any desired area up to 8 ft. x 50
ft. Another quick adjustment
makes it distribute the water on one
side only (either side), or it may be
stationary. There is nothing to
worry with it.

1. 8 ft. long. Price, \$15.00.
Shipping Weight, 30 lbs.

2. 15 ft. long, waters an area 15
x 50 to 60 ft. Price, \$25.00. Ship-
ping Weight, 52 lbs.

Money refunded if not satisfactory after ten days.

For catalogue of other up-to-date port-
able sprinkling devices suitable for all purposes
at prices ranging from 30c to \$25.00.

Complete Automatic Irrigation Plants installed
on estates, golf courses, gardeners, truck
gardens, etc.

Visit our exhibit at the International Flower
Show, north aisle, second floor, Grand Central
Station, New York, March 15-22.

E. GEO. W. CLARK CO.

59-C Fifth Avenue, New York

This is Complimentary

ONE of the most
interesting contri-
butions to business
literature in recent
years is Joe Chapple's
interview with David
Belasco on

"The Dramatic Element in Business"

This classic, which
forms just one number
of Mr. Chapple's fa-
mous "Interviews" with
great business executives,
has been reproduced (by
request) for readers of
House and Garden and
may be had on application,
with four cents to cover
postage.

"The most original and re-
freshing thing since the
Message to Garcia"

Address:

"INTERVIEW" DEPARTMENT

NATIONAL MAGAZINE
Boston, Mass.

Furniture

of every notable epoch,
including many specially
designed pieces, is re-
tailed at no prohibitive
cost in this interesting
establishment, devoted
exclusively to Furniture.

Two-score years of effort
has developed our en-
deavor into an industrial
art.

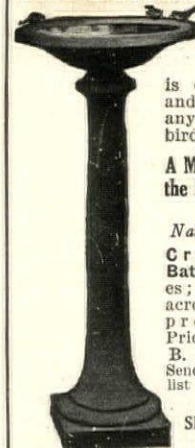
Suggestions may be
gained from *de luxe*
prints of well appointed
rooms, which will be sent
gratis upon request.

New York Galleries

Grand Rapids Furniture Company
INCORPORATED

34-36 West 32nd St. New York

A SHARONWARE BIRD-BATH



is ornamental in itself
and adds new charm to
any lawn because of the
birds it attracts.

A Most Appropriate Gift for
the Friend Who Loves Birds

Endorsed by the
National Audubon Society

Crystal Spring Bird
Bath. Height, 39 inches;
bowl, 17 inches
across. Made of frost-
proof artificial stone.
Price (F. O. B. N. Y.). \$10.00
Send for descriptive price
list of Sharonware Garden
Furniture.

SHARONWARE WORKSHOP
86 Lexington Ave., N. Y.

Boston Garter

SILK
50
Cents

Velvet Grip

LISLE
25
Cents

Gives men more service and more
comfort for its cost than any other
article they wear. It's put on and
taken off in a jiffy and holds
socks neatly and securely.

George Frost Company, Makers, Boston



Marble

Mantels - Consoles
Sun Dial Pedestals
Benches - Fountains

S. KLABER & CO.
Established 1849

126 West 34th St. N. Y.

The Countryside

SUBURBAN LIFE

SIX GREAT SPECIAL NUMBERS FOR ONLY ONE DOLLAR

Because You Live in the Country

The Countryside Magazine is for you. And this offer is for you. Six great special numbers, with gorgeous covers by Paul Bransom; a wealth of beautiful pictures, and articles on every phase of country living, for only One Dollar. The numbers are:

February Spring Building Number
March Annual Garden Number
April Spring Planting Number
May Little House Number
June In the Country Number
July Summer Sports Number

This is the limited offer of the new owners (The Independent-Harper's Weekly) to enable you easily to make the acquaintance of the greater Countryside Magazine. Good only if you accept before March 20.

Because you live in the country—or expect to live there some day—or go there now for rest and recreation, The Countryside is *your* magazine.

Every important problem that concerns your comfort or enjoyment as a country householder you will find discussed in The Countryside by recognized authorities who stand highest in their chosen fields.

Each number has its big central subject in season—but every number is a garden number, a building number, a house furnishing number, a decoration number, a poultry number, a motor number—a country living number in every sense. The Countryside service never stops, in any part of its field.

Note These Features

Space permits only brief mention of the editorial plans of the new owners.

Aymar Embury II, with five articles, inaugurates "The House Livable." Harold A. Caparn, former President of the American Society of Landscape Architects, is presenting a series of articles on "The House Outdoors." J. Horace McFarland launches our campaign "Better Roses for America" with an article in March illustrated in four colors.

"The Whole House—Room by Room" is another new feature to begin soon—a series of monthly manuals—taking up the problems of construction, decoration and furnishing as applied to each room as a unit from bedroom to library.

Churchill Ripley writes during 1917 on Rugs; E. I. Farrington writes on Poultry (every month); Harold D. Eberlein and Abbott McClure write on Furniture; William Haynes and Mrs. Leslie Hall write of Dogs and Kennel Interests; Charles Dexter Allen tells what is new in Textiles; Harold J. Howland supplies a monthly editorial on the Spirit of the Countryside; Theodore M. R. von Keler is the Motor

Editor and conducts the Motor Service; F. F. Rockwell, Jessie P. Frothingham and Parker T. Barnes write on Horticulture and Gardening; Frank A. Waugh writes on Trees; Professor Hugh Findlay will conduct "The Countryside Garden Laboratory," a great new gardening manual to appear in The Countryside every month.

Note These Names

The roll-call of contributors under the new ownership includes such names as: Margaret Woodrow Wilson; Zona Gale, author of Friendship Village; George Madden Martin, creator of Emmy Lou; W. H. Truesdale, President of the Lackawanna Railroad; Rev. Harry Emerson Fosdick, of Union Theological Seminary; Mary Sargent Potter, daughter of Professor Sargent of the Arnold Arboretum; Hudson Maxim; Joyce Kilmer; Edna Dean Proctor; George W. Cable, author of "Old Creole Days"; Stewart Edward White, author of "The Blazed Trail"; Gutzon Borglum, Sculptor; Kathleen Norris, author of "Mother"; Walter Prichard Eaton; John Burroughs; Norman Harsele; Max Eastman; Josephine Daskam Bacon; Herman Hagedorn; May Irwin; Edward F. Bigelow; Jack London; Wilfrid Wilson Gibson; Cecilia Beaux; Herbert Reed (Right Wing); P. A. Vaile; Margaret Deland; Mary Roberts Rinehart; Marion Harland, and many others whose names stand high in American literature.

Note This Program

Here are the specific interests to which The Countryside devotes its attention primarily:

HOUSE BUILDING—The acquisition of land, selecting the building site, placing the house, scientific construction, modern efficiency, buying the best building materials and equipment, choosing the house plans, dealing with the architect and builder—on these subjects the country house owner needs sound advice. He gets it in The Countryside Magazine.

INTERIOR DECORATION—What is new in flooring, wall coverings, mantels, bath room fittings, lighting fixtures, wood finishing? The Countryside has articles and pictures about everything that goes to make the house inside comfortable, beautiful, sanitary and efficient.

HOUSE FURNISHING—Choosing rugs, curtains, hangings, furniture. Every object that helps to make your life indoors complete you will find discussed in The Countryside by writers who know their subjects well.

OUTSIDE THE HOUSE—Preparing and keeping up the grounds to make your house in the country beautiful in its setting, putting up greenhouse and garage, buying seeds and bulbs, planting the garden, choosing efficient tools, planning the flower bed, selecting porch and garden furniture and decorations, enriching the soil, raising small fruits, keeping poultry, dogs and live stock—all these delights of country living are dwelt upon in The Countryside by experts who write from scientific knowledge and experience, but in such a way that everyone may understand and receive the maximum of help and pleasure from their reading and from the pictures.

HORTICULTURE—Here again The Countryside enjoys unusual distinction because of its excep-

tional sources of information and its scientific and accurate presentation of horticultural knowledge.

SPORTS AND RECREATION—Life in the open air is a big factor in your scheme of country living. In The Countryside, as the seasons come round, you will find striking and picturesque articles on motoring, golf, tennis, riding, driving, skating, shooting, fishing, camping, boating and other sports—to help you get the most out of your life along the countryside.

THE NEIGHBORHOOD—Good roads for your motor car, better schools for your children, proper lighting for your side-walk, the country club for your recreation, the suburban church for your worship, improved railway stations and train service for your suburban travel, more attractive approaches for your town—these things concern you intimately; and these are things for which, as you will see, The Countryside stands.

The Countryside Shop

A new and unique service free to every reader. This alone is worth many times the full subscription price—merely in what it saves you.

The Countryside Shop keeps you in touch with the new things, and the best things, offered by the merchants and makers, growers and distributors. It brings you the new ideas of those who plan and execute. It tells you how to get things, what to get and where to get them. Its expert counsellors are leaders in their special fields. Consultation is free—regarding Seeds, Bulbs, Shrubs or Trees, Garden Equipment, Outdoor Adornment, House Plans, Building Materials, House Furnishings and Decorations, Furniture and Rugs, Motor Cars and Accessories, Trucks and Tools, Poultry and Dogs, Sporting and Outdoor Goods, Country Property.

Say Yes Now

Use the yes blank below. No matter about the money today. The main thing is—get your acceptance in and enjoy your first number of what we plan to make the most definitely useful periodical aid to country living in America—and the most interesting.

The Independent Corporation
119 West Fortieth Street, New York

YES. Send me the six numbers of The Countryside, beginning with February. I will send \$1 shortly.

Name

Address

The Countryside

119 West Fortieth Street, New York

Send No Money
now. Just mail the yes blank and make sure of this unusual bargain.



Mardi Gras Time

Are you following the delightful "American Adventures" series by Julian Street, with illustrations by Wallace Morgan, in Collier's? These charmingly humorous narrative-descriptions of the most interesting places and customs in the South are worth watching for. The one in the February 24th issue is "Mardi Gras" and there will be another one early in March.

Collier's
THE NATIONAL WEEKLY

NOV 22 1939

REPLACEMENT

NOV 22 1939

DISCARDED

Burpee's Seed Grow

BURPEE'S DOLLAR BOX

Home Garden Collection of Vegetable

For \$1.00 we will mail a complete Collection of Fordhook tested and proved Vegetable Seeds, suitable for medium size garden, together with booklets "Food Value of Fresh Vegetables" and "Vest Pocket Guide on Vegetable Culture," as follows

Bean— $\frac{1}{2}$ pint Burpee's Stringless Green Pod
 Bean—1 pkt. Fordhook Bush Lima
 Beet—1 pkt. Burpee's Extra Early
 Carrot—1 pkt. Danvers Half-Long
 Sweet Corn—1 pkt. Golden Bantam
 Cucumber—1 pkt. Burpee's Extra Early White Spine
 Lettuce—1 pkt. Wayahead

Lettuce—1 pkt. Iceberg
 Peas— $\frac{1}{2}$ pint Gradus
 Parsley—1 pkt. Dark Moss Curled
 Radish—1 pkt. Long White Icicle
 Radish—1 pkt. Rapid Red
 Tomato—1 pkt. Chalk's Early Jewel
 Turnip—1 pkt. Petrowski

The above assortment of Choice Vegetable Seeds carefully packed and sent postpaid to any address on receipt of \$1.00

Five of the Finest Fordhook Vegetables

For 25 cents we will mail one packet each of the following vegetables, which are unequalled in their class. No other small collection would quite completely fill the requirements of the average garden.

Bean—Fordhook Bush Lima, the most famous Bush Lima.
 Beet—Black Red Ball, rich color, tender fine flavor, early.
 Corn—Golden Bantam, extra early, hardy, luscious and sweet.

Lettuce—Brittle Ice, large head, crisp and mild.
 Radish—Rapid Red, quickest growing round red radish, crisp and solid.
 25c buys the Five of the Finest as named above. Five collections for \$1.00 and mailed to separate addresses if so ordered.

As a Compliment to the Ladies we will include with each collection a regular 10 cent packet of Fordhook Favorite Asters.

Burpee's Annual for 1917

The Leading American Seed Catalog is bigger, brighter and better than ever before. We have added twenty-two pages, making in all 204 pages, and best of all, you will find 30 Burpee Specialties illustrated in color. Burpee's Annual is mailed free upon request. A post card will bring it. Write for your copy today and mention House & Garden.

W. ATLEE BURPEE & CO

Burpee Buildings
 Philadelphia

